# **ROATAN CRUISE TERMINAL**

# CONTINGENCY PLAN FOR COMPANIES WITH RISKS OF SPILLS FOR FUEL AND OTHER HARMFUL AND POTENTIALLY DANGEROUS SUBSTANCES IN OPEN WATERS OR INNER WATERS



Prepared in accordance with the provisions of the PNCH and Resolution No. DGMM / 123/2017

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X	Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances			ROATAN CRUISE TERMINAL	
	Prepared by	Reviewed by	Approved by	Date	Review
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# IMPLEMENTATION

This Plan has been prepared by INTERMARIS, S. de R. L., for ROATAN CRUISE TERMINAL, and its scope is part of the ROATAN CRUISE TERMINAL Cruise Ship Terminal, Roatán, Bay Islands, Honduras. Likewise, it has been submitted for review by the General Directorate of the Merchant Marine and approved for its implementation and enforcement as of the date.

## JUAN CARLOS RIVERA GARCÍA MANAGING DIRECTOR GENERAL DIRECTORATE OF THE MERCHANT MARINE

DATE

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## DISTRIBUTION

No.	EPIP copy	Assigned to:	Date of assignment	Return Date	Authorized by: Signature - Terminal Manager
1	Master Copy	General Manager of Roatan Cruise Terminal			
2	Copy No. 2	Health and Hygiene Supervision (Health & Sanitation)			

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#### 1. INTRODUCTION

This Local Contingency Plan for Spills of Hydrocarbons and Harmful and Potentially Hazardous Substances was prepared by ROATAN CRUISE TERMINAL following the instructions issued by the DGMM.

ROATAN CRUISE TERMINAL makes every effort to implement environmental operating procedures designed to avoid activities or conditions that could negatively impact the environment. For this, it adheres to the following principles (see detail in section 3.6. and subsequent "Environmental Management System"):

- Compliance
- Prevention
- Environmental education and awareness
- Continuous improvement

This Plan reflects the work of a whole team committed to the aforementioned principles, who have taken into account: the characteristics of the facilities, the types of fuels and harmful and potentially dangerous substances that are stored exclusively for the operation and vessels that dock in their facilities. In addition, considerations have been taken for their geographical and climatic conditions and location, personnel organization and experience in the operation.

ROATAN CRUISE TERMINAL is a specialized port terminal dedicated to receiving passenger ships, specifically international cruise ships, according to an established docking schedule.

ROATAN CRUISE TERMINAL is located at Dixon Cove, on the southwest coast of Roatán, Bay Islands, Honduras and has a dock with two berthing positions.

The ships that moor at the dock belong to the company and passengers descend to tour the facilities, for a shopping, depart to tours, etc.

ROATAN CRUISE TERMINAL port terminal does not operate with loads or bulk of any kind, nor does it handle or store fuel and oil or other harmful and potentially dangerous substances for commercial purposes.

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The fuel or other harmful and potentially dangerous substances that are stored there are found only in limited quantities and are used exclusively to carry out the operations and maintenance of the areas that comprise the installation.

#### 1.1. Purpose and Objective of the Plan

#### 1.1.1.Purpose

The purpose of this Plan is to minimize the consequences of a spill of fuel or harmful and potentially dangerous substances, initially preventing them from reaching the aquatic spaces adjacent to ROATAN CRUISE TERMINAL port facility and, at the same time, maximizing collaboration in preparation of local response, and if required, by the competent authority within the area and at the national level for this type of event.

#### 1.1.2.Objective

The general objective of this Plan is to define responsibilities and create a structure of preparation and immediate response both at the local level and at the higher levels if applicable, with the collaboration, cooperation, participation and coordination of the corresponding entities. This in order to apply the best possible techniques in spillage response and resource activation as the magnitude of the incident increases.

#### 1.2. Scope and Coverage of the Plan

The scope of this Plan, because it is at local level, is limited to the containment of spills of fuel and harmful and potentially dangerous substances that exist within the facilities, including the response action of our own personnel, as well as the collaboration of the corresponding authorities and entities and as for the area, it is circumscribed within the facilities comprising ROATAN CRUISE TERMINAL.

In order to ensure a timely and effective response to spills or the threat of a fuel spill, this Plan:

- a. Establishes notification, alerts and evaluation diagrams;
- b. Identifies the organizational chain of command and related responsibilities;
- c. Establishes an incident notification procedure;
- d. Identifies risk areas and probable sources of fuel spills;



- e. Identifies environmentally sensitive coastal and river areas, vulnerable resources at risk and protection priorities;
- f. Identifies equipment to combat hydrocarbon spills, logistic support facilities and available communication diagrams and contacts;
- g. Identify the facilities for the storage of the recovered hydrocarbon, as well as the disposal methods.

#### 1.2.1. Updates and Reviews

The responsibility of developing, updating, reviewing, modifying and submitting this Plan to the DGMM for approval is the responsibility of ROATAN CRUISE TERMINAL. Any update or revision shall be recorded in the table indicated in Appendix I 'Record of Updates and Revisions'.

This plan should be updated whenever changes occur in organizations or key personnel responsible for the organization and response, as well as in the case of substantial modifications in the storage or storage facilities of fuel or harmful and potentially dangerous substances.

The plan must be reviewed at least once a year or when required for special reasons in order to prepare and submit it to the approval of the competent authority. It should also be reviewed based on experiences of actual incidents, drills and other exercises, or any change in risks or vulnerabilities in any area, equipment and technology available.

#### **1.3. Regulatory Framework**

Considering that through the DGMM Agreement No. 022-2015, the approval of the Regulation of Prevention and Control of Marine Pollution by Spills and Discharge of Wastes, Hydrocarbons and Harmful and Potentially Dangerous Substances took place in Honduras, this Plan is framed in the National Contingency Plan for Spills of Hydrocarbons and other Harmful and Potentially Hazardous Substances, as well as in Resolution No. DGMM / 123/2017 of the General Directorate of the Merchant Marine and in the corresponding current regulations, including, but not limited to:

- United Nations Convention on the Law of the Sea.
- Organic Law of the National Merchant Marine.
- Regulations for the Enabling, Enrollment and Re-registration of the Service Providers of the Control Service of Spills of Hydrocarbons and other Harmful Substances Potentially Hazardous in the Waters, Coasts and Shores of Honduran Jurisdiction (OSRO).
- International Maritime Code of Dangerous Goods (IMDG Code IMO).

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The PNCH states that the first level of preparedness and response to pollution events is developed with local contingency plans and is the first level of response that is activated in the event of an incident, so human resources must be available and equipment on site for an expedited response time.

#### 1.4. Glossary, definitions, abbreviations and units

For the purposes of this Plan, the terms and abbreviations that are expressed below have the following meanings:

- a. Waiting Areas (E): place where resources are concentrated while waiting to be assigned for an incident response, according to the SCI.
- b. **Base (B)**: place from which the logistic functions are coordinated and managed for the response to an incident, according to the SCI.
- c. **CEE**: Incident Commander:
- d. **COE**: Emergency Operations Center. It is the pre-designated facility to locate the representatives of the State Institutions that participate in the response and coordinate the support activities. The operations of the incidence are not managed from the COE, rather it provides inter-institutional coordination for resource management and communication. Additionally, information is collected, analyzed and disseminated providing a common outline of the incident status.
- e. **Spill**: leakage of hydrocarbons, harmful and potentially dangerous substances from the medium that contains it that may impact the environment. For the purposes of this Plan there are the following types of spills and consequently their response:
  - Level 1 Tier I: is a probable spill of an operational nature and affects the operator's own facilities. This type of spill should be mitigated with on-site resources.
  - Level 2 Tier II: a spill less likely than Tier 1 and its impact exceeds the Tier I Level's responsiveness; therefore, its mitigation requires additional resources from those on site. The Tier II readiness level supports the Tier I response.
  - Level 3 Tier III: it is a spill that can cause significant impacts in areas of public, environmental and economic interest of national importance. The level of preparation for Tier III requires resources from multiple national and possibly international sources.
- f. **DGMM**: General Directorate of Merchant Marine.
- g. **Dispersants:** specially formulated agents that are sprayed in low doses on hydrocarbon stains to improve their natural mixture and biodegradation in surface waters.
- h. HC: hydrocarbon or derivative.
- i. **IPIECA**: International Petroleum Industry Environmental Conservation Association is the association of the global hydrocarbon and gas industry for environmental and social issues.

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- j. **MIAMBIENTE**: Ministry of Energy, Natural Resources, Environment and Mines of the State of Honduras.
- k. Protection Levels:
  - Level A: is the highest level of protection for the respiratory system, skin, eyes and mucous membrane. It consists mainly of a fully encapsulated dress, a self-contained respiratory protection equipment (SCBA), chemical protection boots and double gloves.
  - Level B: the equipment with high respiratory protection and limited skin protection, only for splashes. It consists of a self-contained breathing apparatus (SCBA), chemical protection boots, double chemical gloves, among others.
  - Level C: is the level with limited respiratory protection and limited skin protection. It consists of a full face respirator, chemical protective suit, double chemical resistant gloves and chemical resistant boots.
  - Level D: It is primarily the work uniform (boots and helmet).
- I. **OMI IMO**: International Maritime Organization.
- m. **ONU (number ONU UN number)**: of the United Nations Organization, are four-digit numbers established to identify hazardous substances or materials internationally, especially for transport and storage.
- n. **OPIP**: Port Facility Security Officer (PFSO).
- o. **OSRO**: Organization for the Attention of Spills of Hydrocarbons and Pollutants.
- p. **PNCH**: National Contingency Plan for Spills of Hydrocarbons and other Harmful and Potentially Hazardous Substances.
- q. **Command Post (CP)**: place from which the function of Command of an Incident is exercised, according to the SCI.
- r. SCI: Incident Command System (ICS). It is a structure that organizes and facilitates incident response activities in five main functional areas: command, operations, planning, logistics and finance.
- s. **SNPP**: harmful and potentially dangerous substances that pose a serious potential risk to both people and the environment.
- t. Protection zones:
  - Hot Zone (red, exclusion): it is the area with the highest concentration and risk of exposure in a spill or leak of a harmful and potentially dangerous substance.
  - Warm Zone (yellow, reduction of pollution): in an emergency of a harmful or potentially dangerous substance is the area used for decontamination.
  - Cold Zone (green, support): in an emergency of a harmful or potentially dangerous substance, it is the pollution-free zone and allows the location of emergency support personnel.

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#### **1.5.** Operations of the terminal in relation to the environment

Operations and actions that ROATAN CRUISE TERMINAL takes in favor of environmental care are described as established in its "Environmental Management System", see point 3.6.2.

#### 1.5.1. Sewage treatment plant

The sanitary sewage originating from the installation is treated at the CROMAGLASS CA-120 Treatment Plant that is installed in the Terminal. It has a pre-equalization tank with a capacity of 5,800 gallons and a capacity to treat 10,000 gallons of water per day.

After going through the treatment at the Cromaglass Treatment Plant, the effluent from the Plant is used to irrigate the surrounding green areas, using an infiltration field, making a final treatment in the soil. Upon leaving the Plant, the effluent passes through a Sym / Tec filter that removes sediments and two chlorinators and then discharges into the infiltration system.

It should be noted that ROATAN CRUISE TERMINAL performs a periodic sampling of these treated wastewater to confirm that the process is being carried out properly. The samples are sent to a certified laboratory in the mainland of Honduras, in the city of San Pedro Sula.

Monitoring and control of the operational parameters of the wastewater treatment plant (COD, BOD, Total Solids, Sedimentable Solids, Turbidity, Color, Odor, Nitrates, Ammoniacal Nitrogen, Phosphates, Total Phosphate, pH, Oils and Fats and Fecal Coliforms) is carried out on a monthly basis and the results are presented to the Ministry of Natural Resources and Environment in its annual ICMA report.

#### 1.5.2.Water storage tanks

Both sanitary water and drinking water come from two possible sources: on the one hand, there is a well located outside the facility, with a pumping system and on the other hand rainwater is collected from the main buildings.

Appropriate solid separation / filtering systems have been implemented, as well as disinfection systems. Rain filters have been placed along the drains of the Plaza that properly separate the organic substances from the water collected in the cistern.

The water storage capacity in the facility is 48,000 gallons (Main Cistern: 31,000 gal and Secondary Cistern: 17,000 gal).

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#### 1.5.3.Pump Room

The following are found in this room: the fire network pump, the filtration equipment and ultraviolet lamps in addition to an automated water chlorination system from the storage tanks, to be used in the potable water system of the facilities. Here, well or rainwater is filtered and treated. See point 3.6.2. Procedures of the Environmental Management System, (c.) WATER ADMINISTRATION subsection 12.

In this sector there are two small plastic tanks with Chlorine and Muriatic Acid of 25 gallons each. Both are positioned on separate anti-spill pad platforms.

The place is equipped with:

- Eye Wash.
- Safety Sheet for stored products.
- Personal Protective Equipment for handling substances that are operated there.

#### 1.5.4. Reverse Osmosis Potabilization Plant

This room consists of a reverse osmosis purification system for water consumption. The source of the water has already been through the filtration system. In addition, there is an in-house laboratory where water quality is controlled for all lots produced of 5 gallon water bottles. All these bottles are used for internal consumption by the facility personnel. See point 3.6.2. Procedures of the Environmental Management System, (c.) WATER ADMINISTRATION subsection 12.

#### 1.5.5.Fuel room

The fuel room consists of 3 storage tanks of fuel for internal use consisting of:

- a. Main Diesel Tank: 6000 Gallons.
- b. Secondary Diesel Tank: 1500 Gallons.
- c. Gasoline Tank: 500 Gallons.

Company's vehicles and drums and other smaller containers are filled here. There is a procedure for the supply of vehicles that indicates that at least 4 people must be present while the operation is being carried out, including Maintenance and Warehouse personnel. This in order to ensure that all safety measures are complied with and avoid spillage while the operation is being carried out.

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This room has a concrete containment berm with a capacity for 180% of the total capacity of the sum of the tanks.

Also, stored within the Fuel Room, are wastes of used oils from vehicles in the terminal, which are periodically removed by a local supplier that recycles, reuses or disposes of them in the mainland of Honduras.

These wastes, contained in PVC drums of approximately 205 liters in capacity, and are placed on plastic anti-spill trays.

The place is equipped with:

- Eye wash.
- Fire extinguishers.
- Safety Sheet for stored products.
- Personal Protective Equipment for the handling of hydrocarbons.

#### 1.5.6.Flammable Compartment

There is a small compartment that is used for the storage of small amounts of fuel for minor equipment such as scythes and tools that run on diesel or gasoline.

The approximate amounts of fuel that are usually stored are the following:

- Diesel: 15 gallons, divided into 3 drums of 5 gallons each.
- Gasoline: 48 gallons, distributed as follows: 6 drums of 5 gal (30 gal), 6 drums of 2 gal (12 gal), 6 drums of 1 gal (6 gal).

#### 1.5.7. Electric Power Generator Room

ROATAN CRUISE TERMINAL has a 750 KW power plant, powered by a diesel engine, through which the entire Plaza area is supplied as a secondary or backup station.

This generator has a 1,000-gallon diesel tank.

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The generator room has a containment curb in case of spillage, constructed of concrete with a berm area of approximately 150% of the volume of the tank and is equipped with fire extinguishers.

#### 1.5.8.Transformers

In the port facility there are three electric power transformers, two of them are cooled by oil in a closed circuit.

#### 1.5.9.Paint Room

Paint room contains:

- a. Chlorine: 110 gallons in two drums of 55 gallons each (maximum total 205 liters x 2 = 410 liters).
- b. Muriatic acid: 25 gallons maximum, in 1 gallon containers.
- c. Paints: spray and 5 gallon pails.
- d. Silicone base sealants and adhesives in 300 ml containers.
- e. Rust remover: in 1 gallon (3.8 liter) containers.
- f. Solvent: in 1 gallon containers (3.8 liters).
- g. Lubricants: in 1 gallon (3.8 liter), 1 liter and smaller containers.
- h. Insecticides, fertilizers and pesticides: limited quantities in packages of 1 liter and smaller.

The place is equipped with:

- Eye wash.
- Fire extinguishers.
- Safety Sheet for stored products.
- Personal Protective Equipment for handling stored products.

#### 1.5.10. Tasks on ships operating in the terminal

ROATAN CRUISE TERMINAL does not allow supply fuel to the ships that dock there so there is no risk of oil spills in this type of maneuver. See points 3.6.2. Procedures of the Environmental Management System, (e.) MANAGEMENT OF THE COASTAL AND MARINE ENVIRONMENTS, subsection 32 and subsequent.

<sup>&</sup>lt;sup>1</sup> Measurement and calculations made in situ

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Nor is it permissible for ships to carry out major repairs, maintenance or large-scale painting tasks; since in addition to not being a designated port facility for these purposes, the time spent in the installation of ships is only that of a few hours.

The work that can be done by ships is reduced to minimal washing of the hull and exceptionally some minor painting tasks and repairs.

In the case of hull washing tasks, ships use a water-based solution and a product called DECK CLEAN NP, classified under UN number 3265 whose legend shows: "Does not present danger to the environment". See Appendix III Safety sheet (original version) of DECK CLEAN NP.

In the case of paint works, all of the works carried out are always in small scale or dimensions. The ships take all preventive measures before the possibility of a spill or dripping of paint by placing containment barriers in the marine mirror and they count on the spill containment team for any incident.

All minor maintenance activities, such as painting and cleaning, must be authorized by the General Directorate of the Merchant Marine, through the Department of Marine Environment Protection and the Captaincy of the Port of Roatan.

#### 1.6. Response team

#### 1.6.1.Inventory of anti-spill equipment

As for the equipment for the response to a spill of fuel or harmful and potentially dangerous substances, ROATAN CRUISE TERMINAL has the equipment described in Appendix IV Stock of the contingency equipment for fuel spills in the Terminal. See point 4.9. Containment and Recovery.

In addition, a stock is maintained in the Warehouse of: absorbent paper, shovels, brooms, swabs, mops, buckets, hand brushes, rakes, detergent and liquid soap, waste bags, PVC barrels to store waste, etc.

There are also two submersible pumps, hoses, clamps, connections and PCV pipes and all the tools to make the connections and put them into operation.

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The Terminal also has all the necessary Personal Protective Equipment (PPE): boots, gloves, protective glasses, and masks for the gases emitted by the substances with which it works.

For the deployment and handling of the anti-spill equipment, ROATAN CRUISE TERMINAL has a vessel for the purpose called "MBCC 2", type Steel Raft, for Cargo Transport, 23 feet in length, 9.3 feet in width, 2.0 strut and 1.5 feet of draft. This boat has a 40 HP outboard motor. See Appendix II Barge MBCC 2.

#### 1.6.2. Fight against fire

ROATAN CRUISE TERMINAL has a Fire Fighting Plan which was approved by the Roatán Fire Department. See Annex 9, Inspection Certificate of the Emergency and Contingency Plan by the Fire Department.

In addition, and in accordance with the provisions of this Fire Fighting Plan, the company has firefighting equipment, mainly composed of:

- 6 Full suits (helmets, boots, gloves).
- I Fixed pump of 30 HP of power located in the administration parking lot that provides water to the fire stations.
- 6 Fire stations each with 25 meters of hose.
- 4 Fire hydrants for filling of fire truck with 50 meters of hose.

#### 2. **RESPONSE ORGANIZATION**

Based on the PNCH, the Policy established for the response to any spill event will be carried out considering the following priorities, in the order that follows:

- a. The human life.
- b. Environment.
- c. The integrity of the navigation and transport routes.
- d. The integrity of terminals and ports.
- e. The tourist resources.
- f. The property.

Any person who is part of an employee or collaborator of ROATAN CRUISE TERMINAL, has the duty to report any incident that involves or may generate a spill or discharge of fuel and other harmful and

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potentially dangerous substances within ROATAN CRUISE TERMINAL facilities or in the water mirror adjacent to the Terminal.

These reports must be made both in working hours and non-working hours to their immediate Supervisors, Manager or OPIP of the terminal, by the fastest way available, either by: Radio, Cellular, landline or the nearest means available.

For this, Security, Operations and Maintenance personnel have appropriate communication equipment while they are inside the terminal facilities.

All reports will be quickly analyzed by Management, OPIP or Environmental Regent to promptly establish immediate response measures, as well as preventive, corrective measures and will then be recorded in the respective novelty book of the Terminal.

In case of being necessary and if the spill into the sea has taken place effectively, the OPIP, in coordination with the Environmental Regent, will inform and request external help from all the entities in charge for the event that is being presented at the Port Facility and will notify the General Manager, so that he does the same to the DGMM.

The OPIP, according to the information provided by the person who reported the incident, will order the deployment of the spill control teams and the activation of this Plan.

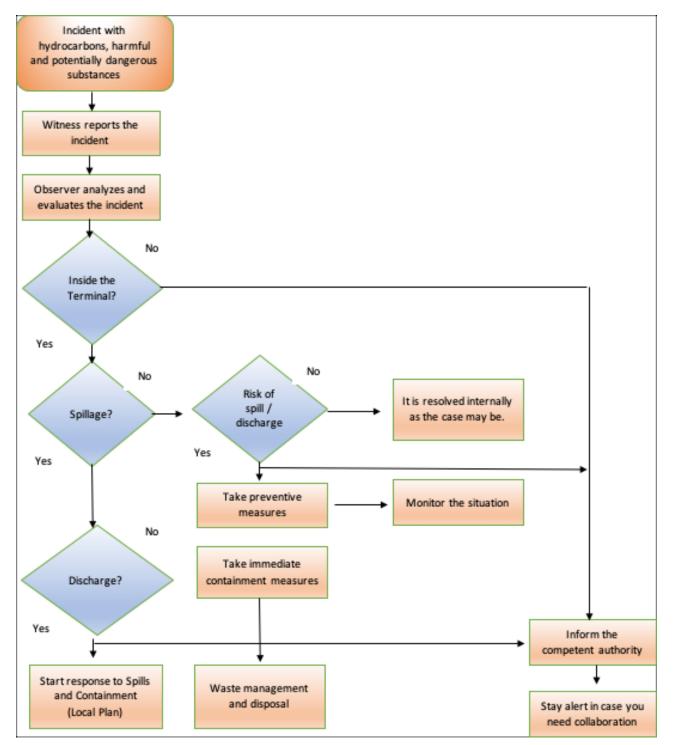
When an incident occurs that affects the environment, the Environmental Committee will meet, which is foreseen in subsection 53 of section 3.6.2. Procedures of the Environmental Management System. This Committee will be responsible for issuing the indications, orders and actions to be carried out in the different stages of response.

#### 2.1. Company response organization diagram

ROATAN CRUISE TERMINAL has the following diagram of organization of response to an incident with the possibility of spilling or dumping of fuel or harmful substances and potentially dangerous to the aquatic environment.

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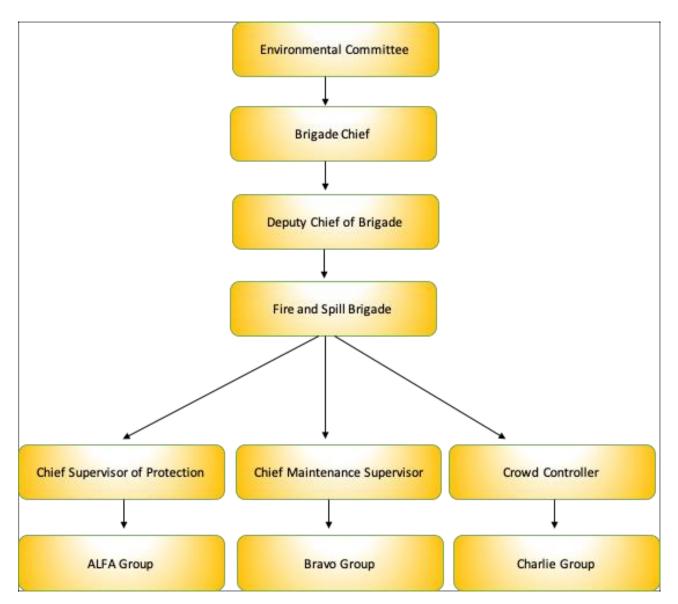
#### **Response Organization Diagram**



X	•	ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
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#### 2.1.1.Brigades

Regarding the organization of the response personnel, the contingency response brigades are established in ROATAN CRUISE TERMINAL, as described below:



#### 2.1.1.1. Functions within the Brigades

#### Brigade chief

Immediately notify senior management and the Environmental Committee of the occurrence of an emergency.

Check if the brigade members are sufficiently capable and trained to face emergencies.

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Be in charge of the operations in compliance with the directives entrusted by the Directorate or the Environmental Committee.

#### Deputy Chief of Brigade

Replace the Head of Brigade in case of absence and assume the same established functions.

#### **Responsibilities of the Spill Brigade**

- 1. Immediately notify the Brigade Chief of the occurrence of a leak or spill.
- 2. Act immediately using the containment equipment: sand boats, absorbent cloths, etc.
- 3. Be sufficiently capable and trained to act in case of leakage or spillage of fuel or other harmful and potentially dangerous substance.
- 4. Activate and instruct in the handling of alarms within the installation, where appropriate.
- 5. Once the alarm is received, the brigade personnel will be urgently constituted in the area of occurrence.
- 6. Once the spill is produced, the situation will be evaluated. If it is critical, he will inform the assembled Environmental Committee so that the evacuation actions are taken if applicable.
- 7. Adopt response, containment and recovery measures to combat leakage or spillage.
- 8. They will properly use personal protective equipment for members who perform spill response tasks.

#### Guidelines for personnel in the contingency area

All ROATAN CRUISE TERMINAL staff must know the general directives of this Plan.

Personnel who observe an irregular situation in their jobs must urgently notify their superior or the OPIP.

Always keep your superior informed of the developments that occur.

#### 2.1.2.Operations center

The Emergency Operations Center (COE) is the physical place where inter-institutional coordination is established with the purpose of managing, optimizing and making viable the resources destined to respond to the spill.

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According to the PNCH for incidents LEVEL I, in Roatán, the Municipality is designated as the incident command post headquarter, located in Coxen Hole, Roatán, Honduras and as an alternate center, the Immigration headquarters of the Airport, located in Roatán, Honduras.

In the case of small and easy-to-solve daily incidents, other facilities are established according to the SCI. To facilitate the response to an incident at the local level, some of the facilities that will be implemented in ROATAN CRUISE TERMINAL are the following:

**Command post** (CP): **CENCOM**, this is located in the **main offices** and there is a person in charge of this area and all communications in case of emergency.

**Base** (B): it is located in the **Conference Room** and constitutes the logistics center where activities will be coordinated in case of an emergency.

**Waiting Areas** (E): it is established in the **Meeting Point** area located in the administrative parking lot of ROATAN CRUISE TERMINAL.

All these locations are located in the facilities of the port terminal.

#### 2.2. Roles and responsibilities of assigned personnel

According to the PNCH, the functions and responsibilities of the Competent Authority in charge of the administration of the response are detailed, being that this Competent Authority is responsible for appointing the corresponding personnel to fulfill the functions and responsibilities within the incident command system, namely:

**Stage Commander (CEE):** is the person in charge of the global administration of all incident response activities and determining priorities and objectives of the incident. According to the incident levels, this charge will be distributed as follows:

The Commander of a Local Incident (Level 1) is the **Port State Supervisory Officer** (OSERP) of the DGMM. In the absence of an OSERP at the scene of the incident, it will be the Port Captain of the DGMM;

The Commander of a Regional Incident (Level 2) will be the **Head of Marine Environment Protection and Prevention of Marine Pollution** of the DGMM;

The National Incident Commander (Level 3) will be the **General Director of the Merchant Marine** or the person designated by him.

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**Incidence Sub-Commander (CEE)**: Collaborates and supports the Incidence Commander (CEE) in the administration of the response to the incident.

**Security Officer:** Maintain security on site. He will collaborate with the evacuation and redirection of traffic. Likewise, he will manage the collaboration with the Port Facility Security Officer (OPIP), when the incident has occurred within the port area.

**Information Officer:** Collect and disseminate information. He provides data related to the incident, as well as any other information about it. If it is a large spill, a Public Affairs Coordinator may act as a contact on the site to arrange visits, gather information and disseminate information to agencies, the public and the media.

**Liaison Officer:** Coordinates and summons support from support agencies, and facilitates and processes international assistance, in accordance with the provisions of this PNCH in coordination with COPECO.

**Industrial Health and Safety Officer:** A safety specialist is usually appointed to ensure that the site where the spill is located and the initial containment site are safe for workers. This Officer also advises the Incidence Commander (CEE) and chief of operations regarding any special safety requirement and ensures that all work is done safely and that all accidents are properly documented.

**Legal Affairs Officer:** Adviser on insurance and liability issues. Ensures that an analytical sampling is carried out, as necessary, and that photographic, video and written documentation of all spill response activities is obtained.

**Chief of the Operations Section:** The Chief of the Operations Section is responsible for managing all tactical operations in an incident, such as:

- Control
- Containment
- Recovery
- Elimination
- Storage and control measures

The Head of Operations may require a **Cleaning Supervisor** to coordinate response activities in the event of a large spill. For marine spills, a Marine Cleaning Supervisor and a Coastal Cleaning Supervisor may be needed, who will ensure that sufficient personnel and equipment are assigned to land or water recovery sites, and supervises access, site preparation and the elimination.

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**Chief of the Planning Section:** The Chief of the Planning Section is responsible for collecting information on the situation and status of resources; which is evaluated and processed for use in the development of the incident action plan (PAI). The dissemination of the information can occur in written form, in formal sessions, or through maps and displays on the board of the incident status.

**Leader of the Environment Unit:** Manages environmental issues, including confirmation that mandatory notification has been made to the regulatory body and that the necessary technical experts in the Environment are available. Controls the effectiveness of the response to the spill.

**Head of the Logistics Section:** Coordinates communications and movements of equipment, personnel and supplies in a large spill. Activate a mobile command center and ensure that the operational needs are met. His tasks also include:

- Spill Access
- Streamline equipment transfer
- Accommodation
- Foods
- Evacuation
- Field coordination (procurement of equipment, maintenance of field communications equipment, coordination of logistics support)
- Provide technical and repair services.

**Head of the Finance Section:** Facilitates financial resources and other resources, arranges payments and controls billing. Ensures cost accounting and cost recovery on the site, as well as maintaining a chronological record of events related to spill control.

The person in charge will be determined according to the responsibility of the origin of the spill.

#### 2.3. Relationship with other public and private actors

Despite not having written agreements with other entities and institutions, ROATAN CRUISE TERMINAL has verbal assistance agreements, as well as a contact, communication and cooperation relationship with:

- COPECO / CODEM
- Fire brigade
- Red Cross



#### Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

#### ROATAN CRUISE TERMINAL

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- Roatán hospital
- Port Captaincy, DGMM
- Municipality of Roatán
- Municipal police
- National Police
- Municipality of Santos Guardiola.
- Armed Forces, Roatán Naval Base.

It also maintains a relationship with private actors, such as:

- Fuel supplier
- Nelson Rittenhouse service provider for collecting used oils and contaminated waste.
- Woods Medical Center Private Hospital
- Esperanza Clinic

#### 2.4. Response levels

Based on the PNCH, the principle of Level or Step Response (TIER) is applied, according to:

**LEVEL ONE (TIER ONE)**: is an accidental discharge that occurs in or near an installation as a result of routine operations. The impacts are low and the capacity for response is obtained with local resources, through the guidelines of a Local Contingency Plan, so that PNCH is not activated at this level.

**LEVEL TWO (TIER TWO):** These are medium spills that occur in the vicinity of an installation as a result of a non-routine occurrence. There may be significant impacts and external (regional) support may be required to respond appropriately to the spill. The response capacity is obtained with resources from the region of the country or from neighboring countries, through the guidelines of an Area Contingency Plan. If this is not enough, you must go to the next level.

**LEVEL THREE (TIERTHREE):** these are large spills that occur near or far from an installation as a result of a non-routine event and that require significant resources and support from cooperation of Local Contingency Plans, national area and international cooperation, duly coordinated by PNCH guidelines to mitigate effects that are perceived as wide-ranging, that is, of national or international importance.

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The following Table graphically relates the step response system.

MAJOR SPILL	LEVEL THREE	LEVEL THREE	LEVEL THREE
MEDIUM SPILL	LEVEL TWO	LEVEL TWO	LEVEL TWO
MINOR SPILL	LEVEL ONE	LEVEL ONE	LEVEL ONE
	LOCAL	AREA	NATIONAL

#### 2.5. Agreed external support

In addition to the actors mentioned in 2.3., there is a relationship with external support in case of contingency with:

- Roatán Marine Park.
- ANACARIBE Maritime Agency.
- Authorities of official visits (Customs, Public Health, Migration, OIRSA).
- Air Evac.
- Roatán Electric Company, RECO.
- Hondutel
- Town Center, Port of Roatán.

It should be noted that there is no authorized OSRO base in the vicinity of Roatán and the Bay Islands and the closest base is that of OCEAN POLLUTION CONTROL HONDURAS in Puerto Cortés.

### 3. PREPARATION AND POLICIES

#### 3.1. Company risk scenarios

Taking into account everything detailed in 1.5. and based on paragraphs 6, 7 and 8 of point 1., the following spill or discharge scenarios are established within the ROATAN CRUISE TERMINAL facilities:

1. Damage, breakage or breakdown of one or more of the three diesel or gasoline tanks inside the Fuel Room, with damage to the concrete wall of the anti-spill pan.



#### Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

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- 2. Damage of containers or drums in the storage room of Inflammables.
- 3. Damage to the container barrels (55 gal.) of chlorine inside the Paint Room.
- 4. Damage to the plastic tank (25 gal.) of chlorine inside the Pump Room.
- 5. Damage to the plastic tank (25 gal.) of muriatic acid inside the Pump Room.
- 6. Damage of the containers (01 gal.) of muriatic acid inside the Paint Room.

#### 3.2. Worst Case Scenario

It is established according to the risk scenarios determined and detailed in section 3.1., that the worst scenario would be:

1. Damage, breakage or breakdown of one or more of the three diesel or gasoline tanks inside the Fuel Room, together with the damage of the concrete wall of the berm.

This scenario, which is considered the worst in the facilities of ROATAN CRUISE TERMINAL, is of a probability: NOT PROBABLE. Based on Standard UNE 150008. See Annex 8.

This is reasoned since the area where the fuel tanks are located has a concrete wall and for a spill to occur, both damages should occur in one of the tanks and with the wall.

Even if this occurs, the discharge to the waters would be punctual and of a relatively simple containment.

2. Risk of oil spills from a ship (very unlikely scenario). The vessel must activate the provisions of its SOPEP Manual, and manage through its channels the services of an OSRO. The Terminal may support the organizational structure and equipment detailed in this plan.

#### 3.3. Probability and Consequence

ROATAN CRUISE TERMINAL has carried out an Analysis and Evaluation of Environmental Risk for the different spill risk scenarios specified in section 3.1., In accordance with Standard UNE 150008. See Annex 8 - UNE 150008 "Analysis and evaluation of environmental risk", obtaining the results that follow.

Taking into account the probability of occurrence, the consequence and the severity of the environment, the 6 scenarios in the environments were considered: Natural, Human and Socioeconomic. All scenarios resulted in a Low Risk in the ROATAN CRUISE TERMINAL, as can be seen in the three tables below.

Although the result of the environmental risk was low in all scenarios and environments, ROATAN CRUISE TERMINAL has taken concrete actions to mitigate the risk, both environmentally and in occupational safety.

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#### MATRIZ DE ESTIMACION DE RIESGO NATURAL

No.	ESCENARIO DE RIESGO	CANTIDAD	PELIGROSIDAD	EXTENSION		VALOR PROMEDIO DE CONSECUENCIA	PROBABILIDAD	RIESGO AMBIENTAL	ACCION
1	Daño de uno o varios de los tanques HC, con daño del muro de concreto de la batea anti-derrames.	2	3	1	4	3	1	3	Documentar en Plan de Contingencia, estableciendo gestión de respuesta y comunicaciones.
2	Daño de los botes o bidones de Pañol de Inflamables.	1	3	1	4	2	2	4	Se instalará un Kit para contención de derrames menores en el área.
3	Daño de los barriles contenedores (55 gal.) de cloro dentro del Cuarto de Pinturas.	1	4	1	4	3	1	3	Se mantienen los barriles sobre bateas de contención de derrame.
4	Daño del tanque plástico (25 gal.) de cloro dentro del Cuarto de Bomba.	1	4	1	4	3	1	3	Se mantienen el tanque sobre batea de contención de derrame.
5	Daño del tanque plástico (25 gal.) de ácido muriático dentro del Cuarto de Bomba.	1	2	1	4	2	2	4	Se mantienen el tanque sobre batea de contención de derrame.
6	Daño de los botes (01 gal.) de ácido muriático dentro del Cuarto de Pinturas.	1	2	1	4	2	2	4	Se mantienen los botes sobre bateas de contención de derrame.
7	Derrame de hidrocarburos proveniente de un buque	3	3	3	4	3	1	4	El buque debe activar lo estipuado en su SOPEP, incluyendo gestiones para atención por parte de un OSRO

#### MATRIZ DE ESTIMACION DE RIESGO HUMANO

No.	ESCENARIO DE RIESGO	CANTIDAD	PELIGROSIDAD	EXTENSION	POBLACION AFECTADA	VALOR PROMEDIO DE CONSECUENCIA		RIESGO AMBIENTAL	ACCION
1	Daño de uno o varios de los tanques HC, con daño del muro de concreto de la batea anti-derrames.	2	1	1	4	2	1	2	Documentar en Plan de Contingencia, estableciendo gestión de respuesta y comunicaciones.
2	Daño de los botes o bidones de Pañol de Inflamables.	1	1	1	4	2	2	4	Se instalará un Kit para contención de derrames menores en el área.
3	Daño de los barriles contenedores (55 gal.) de cloro dentro del Cuarto de Pinturas.	1	3	1	4	2	1	2	Se mantienen los barriles sobre bateas de contención de derrame.
4	Daño del tanque plástico (25 gal.) de cloro dentro del Cuarto de Bomba.	1	3	1	4	2	1	2	Se mantienen el tanque sobre batea de contención de derrame.
5	Daño del tanque plástico (25 gal.) de ácido muriático dentro del Cuarto de Bomba.	1	3	1	4	2	2	4	Se mantienen el tanque sobre batea de contención de derrame.
6	Daño de los botes (01 gal.) de ácido muriático dentro del Cuarto de Pinturas.	1	3	1	4	2	2	4	Se mantienen los botes sobre bateas de contención de derrame.
7	Derrame de hidrocarburos proveniente de un buque	3	2	3	4	3	1	3	El buque debe activar lo estipuado en su SOPEP, incluyendo gestiones para atención por parte de un OSRO

#### MATRIZ DE ESTIMACION DE RIESGO SOCIOECONOMICO

No.	ESCENARIO DE RIESGO	CANTIDAD	PELIGROSIDAD	EXTENSION	Y CAPITAL	VALOR PROMEDIO DE CONSECUENCIA	PROBABILIDAD	RIESGO AMBIENTAL	ACCION
1	Daño de uno o varios de los tanques HC, con daño del muro de concreto de la batea anti-derrames.	2	1	1	3	2	1	2	Documentar en Plan de Contingencia, estableciendo gestión de respuesta y comunicaciones.
2	Daño de los botes o bidones de Pañol de Inflamables.	1	1	1	3	2	2	4	Se instalará un Kit para contención de derrames menores en el área.
3	Daño de los barriles contenedores (55 gal.) de cloro dentro del Cuarto de Pinturas.	1	3	1	3	2	1	2	Se mantienen los barriles sobre bateas de contención de derrame.
4	Daño del tanque plástico (25 gal.) de cloro dentro del Cuarto de Bomba.	1	3	1	3	2	1	2	Se mantienen el tanque sobre batea de contención de derrame.
5	Daño del tanque plástico (25 gal.) de ácido muriático dentro del Cuarto de Bomba.	1	3	1	3	2	2	4	Se mantienen el tanque sobre batea de contención de derrame.
6	Daño de los botes (01 gal.) de ácido muriático dentro del Cuarto de Pinturas.	1	3	1	3	2	2	4	Se mantienen los botes sobre bateas de contención de derrame.
7	Derrame de hidrocarburos proveniente de un buque	3	4	3	4	4	1	4	El buque debe activar lo estipuado en su SOPEP, incluyendo gestiones para atención por parte de un OSRO



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#### 3.4. Type and characteristics of spilled potentially hazardous fuel or harmful substances

Diesel: toxic to aquatic life with long lasting effects. This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. See Appendix V: Safety Data Sheet.

#### Diesel Persistence and degradability<sup>1</sup>

It is not anticipated that this substance is readily biodegradable. When released into the environment, the lighter components of diesel fuel will generally evaporate, but depending on local environmental conditions (temperature, wind, mixing or wave action, soil type, etc.), the rest could eventually disperse. in the water column or be absorbed in the soil or sediment. It would not be expected that diesel fuel would be easily biodegradable. In a modified Sturm test (OECD 301B method) approximately 40% biodegradation was recorded for 28 days. However, it has been shown that almost all hydrocarbon components of diesel fuel degrade in the soil in the presence of oxygen. Under anaerobic conditions, such as those found in anoxic sediments, biodegradation rates are negligible.

The product has not been tested. The declaration is derived from products of similar composition and structure.

Premium Gasoline: Toxic to aquatic life with long lasting effects. This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. See Appendix VI Safety Data Sheet

#### Gasoline Persistence and degradability<sup>2</sup>

It is anticipated that this substance is easily biodegradable. After a spill, the most volatile components of gasoline are lost quickly, with the concurrent dissolution of these and other constituents in the water. Factors such as local environmental conditions (temperature, wind, mixing or wave action, type of soils, etc.), photo oxidation, biodegradation and adsorption to suspended sediments can contribute to the weathering of spilled gasoline. The aqueous solubility of non-oxygenated unleaded gasoline, based on the analysis of benzene, toluene, ethylbenzene + xylenes and naphthalene, has been reported to be 112 mg / I. There are also available solubility data on gasoline components considered individually.

<sup>&</sup>lt;sup>1</sup> Source: <u>https://cglapps.chevron.com/msdspds/SDSDetailPage.aspx?docDataId=431749&docFormat=PDF</u>

<sup>&</sup>lt;sup>2</sup> Source: <u>http://www.ridsso.com/documentos/muro/1868\_1486402967\_5898b597bb4e5.pdf</u>

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Of the products cited in 1.5.9., those that could suffer a spill will be mentioned even though these are of smaller and limited quantities.

- Sodium hypochlorite (Chlorine). See Appendix VII with Safety Data Sheet. Do not allow concentrated entry to water sources because, due to its high alkalinity, it could be harmful to aquatic life. Ventilate the area. Wash with plenty of water.
- Muriatic acid (hydrochloric acid). See Appendix VIII with Safety Data Sheet. It is fatal to aquatic life. Do not allow it to enter public drains and water sources.

The other substances are in containers and limited quantities of 1 gallon or less and a spill or discharge that cannot be contained at the site and reach the aquatic environment is not considered possible.

#### 3.5. Event location and conditions

The event mentioned in 3.2. It is located in the Fuel Room, located in the internal access street of the ROATAN CRUISE TERMINAL. See Annex 1.2.

#### 3.6. Company environmental policies

At this point, a brief reference is made to the points of the ROATAN CRUISE TERMINAL *Environmental Management System* that are considered important to mention in this Plan.

You may have access to the document in its original version, which will be attached when presenting this Plan as Appendix IX, ROATAN CRUISE TERMINAL Environmental Management System. It should be noted that this document is currently under review and will be updated soon.

#### 3.6.1.Introduction to the Environmental Management System

The following is an excerpt from Roatan Cruise Terminal Environmental Management System:

". . . ROATAN CRUISE TERMINAL is committed to sustainable environmental management. The cruise port will contribute to meet the needs of the current generation, preserving the environment for future generations to come, by carrying out its operations by making every effort to avoid disruption or harm to the existing ecosystems. If, despite all these efforts, the operations of the Roatán Cruise Terminal itself cause damage to the environment or to any infrastructure in the area of influence of the

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port, Roatán Cruise Terminal would be responsible for remedying the damages under its charge. Roatan Cruise Terminal adheres to the following principles:

#### "Compliance

ROATAN CRUISE TERMINAL will make every effort to comply with all current and relevant environmental laws and regulations that apply to it and will apply environmental operating procedures to help ensure compliance. These procedures will be based on the conditions imposed by all the Environmental Licenses granted to Roatán Cruise Terminal that are current and valid. (See Annex EP-1 for a list of the environmental operating conditions and procedures that implement them).

#### Prevention

ROATAN CRUISE TERMINAL makes every effort to implement environmental operating procedures designed to avoid activities and / or conditions that could negatively impact the environment.

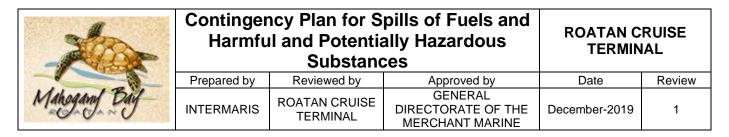
#### Education and environmental awareness

ROATAN CRUISE TERMINAL promotes an environmental education and awareness program. The general objective of this program is to underline the importance of the ecosystems and resources of the Bay Islands. The objective of this program is to continue improving the environmental behavior of both cruise ship visitors (including crew members) and the local population.

ROATAN CRUISE TERMINAL has launched an environmental training program using the conditions of environmental licenses as the basis in order to allow each employee to carry out these environmental operational procedures for which they are responsible for carrying out.

#### Continuous improvement

ROATAN CRUISE TERMINAL has established a system to control the implementation of all environmental operating procedures. ROATAN CRUISE TERMINAL Environmental Management System will be updated periodically."



#### 3.6.2. Environmental Management System Procedures

The following is an excerpt from Roatan Cruise Terminal Environmental Management System (Sections: Water Administration, Coastal and Marine Environment Management, Fire Contingency Plan, Hydrocarbon Spill Contingency Plan, and Other Environmental Aspects):

". . . The Environmental Management System (EMS) of ROATAN CRUISE TERMINAL (RCT) is composed of a set of environmental operating procedures designed to implement the RCT Environmental Policy. Detailed semi-annual work plans will be developed for each environmental operating procedure. The environmental operating procedures that make up the EMS of the RCT are mentioned below:

#### WATER ADMINISTRATION

10. Rainwater collection should be used to conserve water. See reference in section 1.5.2. Water storage tanks.

10.2 Roofs, gutters and rainwater collection pipes are cleaned regularly as part of the maintenance of the facilities, especially before the rainy season.

11. In all bathrooms and other points of public use of water, signs have been installed indicating that the water is not suitable for drinking.

12. ROATAN CRUISE TERMINAL has developed and implemented an effective preventive and corrective maintenance program for the drinking water system. The purification system includes a 10 micron filter, a 5 micron filter, 2 UV lamps and an automated chlorination system to purify water in ROATAN CRUISE TERMINAL facilities. Water storage tanks are maintained and cleaned with detergents that do not affect the organoleptic characteristics of water. In addition, these tanks are coated with an NSF61 certified product for drinking water and their physical conditions are also verified.

13. Personnel working during the operation stage of the project must have access to water for human consumption that meets the quality standards established in the National Technical Standard for the Quality of Drinking Water.

14. If drilling of a well is required within the project area, ROATAN CRUISE TERMINAL must request permission for the exploitation of groundwater resources from the General Office of Water Resources through MIAMBIENTE. In addition, ROATAN CRUISE TERMINAL must submit the pump test data and

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water quality tests performed by a qualified laboratory to MIAMBIENTE. Currently, ROATAN CRUISE TERMINAL has no plans to drill a well and is currently buying the water used in its facilities.

15. The storm water system is properly managed. A preventive and corrective maintenance program has been established by implementing the following operational procedures:

15.1 Measures have been established to prevent discharges into the rainwater collection system of liquids and solid wastes that could contaminate storm water and / or create bad odors when rainwater collectors are dry.

15.2 Performs periodic cleaning of sediments and other organic materials that accumulate in rainwater ditches and drainage pipes. Maintenance records are saved by a record. Any organic material removed is transformed into compost.

16. ROATAN CRUISE TERMINAL cleans and maintains the sewers located below the access road to the terminal.

#### COASTAL AND MARINE ENVIRONMENT MANAGEMENT

22. The destruction of mangroves in the wetland near the bay will not be allowed under any circumstances. The mangrove restoration project of ROATAN CRUISE TERMINAL has already been implemented and is managed and supervised properly. The new mangroves are planted continuously throughout the year and a follow-up is presented to MIAMBIENTE.

23. It is not allowed to disturb, damage and / or exploit species of aquatic flora and / or fauna present in the area. Those species classified as endangered must be specially controlled to avoid these activities.

24. Fishing from the dock and from ships moored at the dock is not allowed.

25. Only duly authorized small paint jobs should be performed on Cruises while they are moored at the dock. These works must strictly follow the environmental operating procedures established in Annex PS.

26. When washing a ship that is authorized by ROATAN CRUISE TERMINAL, only clean water should be used for this purpose.

27. The dock lighting must always be in operation.

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28. ROATAN CRUISE TERMINAL has requested and authorized the permission of the General Directorate of Merchant Marine to install buoys and operate the dock, ensuring that all the stipulations or recommendations that this institution requested are met.

29. It is strictly forbidden to contaminate water bodies within the area of influence of ROATAN CRUISE TERMINAL with household solid waste, oils, machinery grease or other contaminants generated by ROATAN CRUISE TERMINAL.

30. Systematic cleaning of the coastal area of ROATAN CRUISE TERMINAL, especially in the immediate area of influence of ROATAN CRUISE TERMINAL, is carried out. The staff participates in these monthly cleanings. Special days such as Earth Day should be used as motivation to involve crew members, if applicable.

31. Underwater cleaning in the area of influence of the dock must be carried out at least twice a year: at the end of the high season and before the high season. Voluntary divers should / could be involved.

32. In general, no service will be allowed to ships moored at the dock. More specifically:

32.1 No provision of any kind, including the use of containers or trailers.

32.2 No waste of any kind should be removed, either from the dock side or from the water side to a barge.

32.3 No type of garbage should be removed from the dock side or the water side to a barge.

32.4 Gray water cannot be extracted from the dock side or from the water side to a barge.

32.5 There is no disposal of sewage or wastewater from the dock side or from the water side to a barge.

32.6 Oily substances are not removed from the dock side or from the water side to a barge.

32.7 Refueling is not allowed, either by the dock side or by a boat or barge on the water side.

32.8 Vehicles of any kind should not be allowed to access the dock, unless specifically authorized by the General Manager.

32.9 No water service is allowed while moored at the dock.

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33. ROATAN CRUISE TERMINAL has assigned a pilot ship to supervise the maneuvers of cruise ships within Dixon Cove Bay to avoid accidents or collisions capable of damaging the ecosystem in the vicinity of the bay.

34. ROATAN CRUISE TERMINAL has established and maintained the approved navigation aid system for incoming and outgoing cruises.

. . .

#### FIRE CONTINGENCY PLAN

36. The Contingency Plan has been approved by the Fire Department in Roatán. It reflects the strategies and activities that should be executed in case of an eventuality.

Consider possible disasters:

- a. Fires,
- b. Hurricanes and floods,
- c. Earthquakes,
- d. Petroleum spills,
- e. Landslides.

The Roatán Fire Department has carried out the following activities:

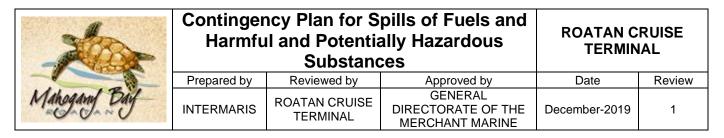
- a. Review and approve the Contingency Plan prepared by ROATAN CRUISE TERMINAL.
- b. Inspection of the facilities in order to guarantee the existence of the equipment and materials for the prevention of contingencies and firefighting.
- c. ROATAN CRUISE TERMINAL annually requests a registration from the Fire Department that establishes compliance with all requested measures.

#### HYDROCARBON SPILL CONTINGENCY PLAN

#### For the Facilities

37. If temporary storage of machinery fuel is required, the following guidelines will be followed:

a. The fuel is stored in containment tanks equipped with berms, walls or containment layers. These crates or retaining walls must be waterproof and their walls must be high enough to contain 110% of the volume of the storage tank.



b. The absorbent material is kept handy for use in case of spillage or leakage. Any used absorbent material containing fuel must be disposed of in a place approved by the Municipality of Roatán.

38. It is strictly forbidden to intentionally spill fuel on the ground (dock area or near the beach) or in bodies of water.

### The Ships

All cruises comply with the discharge limits established by MARPOL for bilge waters and have equipment to prevent contamination of machinery bilges and approved ships in accordance with the guidelines and specifications of the International Maritime Organization for equipment of pollution prevention of machinery vessels. Therefore, petroleum and oily waters cannot be discharged in port. Accidental oil spills could only occur from a Cruise Ship while it is moored at the dock.

To deal with accidental hydrocarbon spills, all Cruises have their own Emergency Plan for Contamination of Hydrocarbons on board (SOPEP), approved in accordance with the requirements of Rule 37 of Annex I of the International Convention for the Prevention of Contamination of Ships, modified by the 1978 Protocol in relation thereto.

These Emergency Plans include contacting and coordinating with the IMO National Operational Contact Points when a fuel spill occurs. (See Annex O-1)

Role of the cruise port in case of accidental petroleum spills of a ship moored at the dock:

39. Report immediately to the vessel any sign of fuel spill if the ship has not yet detected it.

40. Monitor / record the spill with surveillance cameras and security personnel.

41. Help the ship communicate with the IMO national operational contact points and local authorities.

42. Support the ship with personnel if necessary.

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### **OTHER ENVIRONMENTAL ASPECTS**

52. ROATAN CRUISE TERMINAL will keep a copy of all documents that demonstrate compliance with environmental measures and legal operating requirements, including a record of all environmental monitoring activities.

53. An Environmental Committee composed of the General Manager, the Maintenance Manager, OPIP and the Environmental Regent will be established. This committee will develop a detailed work plan; it will review the progress in the implementation of the Environmental Management System twice a year.

54. It is the responsibility of ROATAN CRUISE TERMINAL that all its employees implement the provisions of the Environmental Control Measures, for this reason, all personnel involved in the operation must have knowledge of all obligations.

55. Any environmental damage caused to surrounding areas or to nearby project facilities due to operational activities will be the responsibility of ROATAN CRUISE TERMINAL. ROATAN CRUISE TERMINAL will be responsible for all repairs due.

56. ROATAN CRUISE TERMINAL Environmental Management System will be updated once a year.

# 4. DEVELOPMENT OF THE RESPONSE

### 4.1. Response management

Upon becoming aware of the situation, after having quickly analyzed that there is no risk of fire or explosion, the OPIP or the one designated by the Environmental Committee, will highlight the first response front (BRAVO Group) that should, if possible, stop leaks, spills, discharges, or separate containers that could still spill, without risking or endangering one's own or third parties' integrity, as well as the facilities or infrastructure that could cause a greater evil.

Almost at the same time, the company's internal communications will be carried out (see section 4.4 Alert and Notification Scheme), in order to inform those who are responsible for taking intervention and collaboration in the different response stages.

Simultaneously, if possible, with the labor front (ALFA Group) work will be done to contain the spill in the smallest possible area. The anti-spill equipment detailed in section 1.6.1 is available (Inventory of anti-spill equipment).

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The CHARLIE Group will be responsible for keeping tourists, visitors and internal staff calm if there is a cruise on the pier, making tours of the facility to ensure that there are no commotions of groups of people.

# 4.2. Operations Command

### 4.2.1.Incident Command System

However, to the detailed response organization at the national level (see Section 2.2), the PNCH establishes for Local Plans in subsections 2.2.4.6 and subsequent of APPENDIX Y, that each company uses the Incident Command System (SCI), in turn appointing an Incident Commander (CI), responsible for the functions for organizing the Response in a Level One Incident. It is cited below:

"2.2.4.8 The Commander of a Level One Incident (Tier I) is the person designated for this position by the company, facility or port, in which the event of contamination occurs. This person must have the necessary experience and training to deal with this type of spillage. The Competent Authority shall supervise the response and cleaning operation of the affected areas so that the best available techniques in mitigation and response are applied."

The Incident Command System is based on eight functions:

- Incident Command,
- Planning,
- Operations,
- Logistics,
- Administration and finance,
- Security,
- Public information,
- Link.

In small and easy-to-solve everyday incidents, all these functions can be assumed by a single person, the **Commander of the Incident**.

In the case of incidents that demand a greater workload or specialized resources in some or all of the mentioned functions, the Sections will be established as necessary.



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

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# 4.3. Stages of the response

### 4.3.1.Description of containment techniques and spill response<sup>3</sup>

The following are the different containment and response techniques for a hydrocarbon spill that serve as a reference in the event of a contingency of spillage or discharge.

### **Deviation berms**

Low barriers are constructed with available materials (earth, gravel, sandbags, etc.) to divert hydrocarbon flows to a recovery point or around a vulnerable area. They are used primarily in areas with a slight to moderate decline.

### **Containment Berms**

Low barriers are constructed of available materials (earth, gravel, sandbags, etc.), absorbents are used to contain the flow of hydrocarbon on relatively flat or low decline areas.

### **Interception ditches**

Excavated trenches or trails are used to intercept or divert surface or underground hydrocarbon flows to recovery points around vulnerable areas.

### Sewer lock

Planks, sandbags, gravel or sediments are the materials used to block sewers as a means of containing the flow of hydrocarbon to trenches, streams or other drains that feed the sewers.

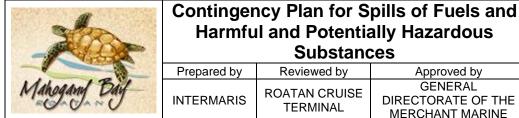
### Blocking dikes

The dikes are built across the riverbed, ditches or other drainage courses of little or no water flow, to block and contain any hydrocarbon flow.

### Water flow dikes

Dikes are constructed through sewers, ditches, flat ravines, etc. to contain the hydrocarbon flow without obstructing the water flow.

<sup>&</sup>lt;sup>3</sup> Mining Security <u>http://www.revistaseguridadminera.com/emergencias/derrame-de-hidrocarburos-tecnicas-para-su-control-y-contencion/</u>



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# **Absorbent barriers**

Absorbent barriers constructed with absorbent materials are used to contain and recover fuel in drainage routes, streams or small rivers. Useful for trapping fuel at lower levels of dikes and conventional barriers, etc.

# Placement of containment barriers in rivers

Angled barriers are placed through a watercourse to contain the fuel flow that is directed downstream for subsequent recovery.

# River barriers to divert hydrocarbon

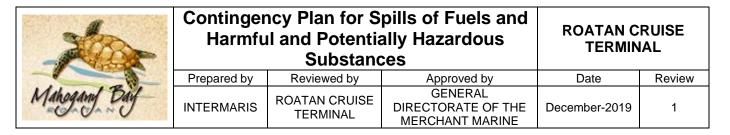
Angled barriers can be placed in rivers to divert the hydrocarbon from environmentally sensitive or vulnerable areas or to divert the fuel to side channels, or to the banks where it can be contained and recovered. Barriers are also placed to divert fuel in rivers to lateral channels where the currents are lower or access is easier.

# 4.3.2. Response planning scenarios

Examples of planning scenarios, response strategies and what ABAN considerations may be applicable in different circumstances of land spills.<sup>4</sup>

<sup>&</sup>lt;sup>4</sup> IMO/IPIECA (1996). Development of sensitivity maps for hydrocarbon spill response.

http://www.cleancaribbean.org/download\_pdf.cfm?cF=IPIECA%20Oil%20Spill%20Report%20Series%20(Spanish)&fN=Vol\_10\_NEBA\_Spanish final 734.25KB.pdf



El hidrocarburo se derrama en una zona aislada y es contenido.
La estrategia se define de manera clara y sencilla, abarcando todo el calendario de la situación de planificación. Requiere técnicas limitadas, por ejemplo, bombear y almacenar temporalmente con recursos <i>in situ</i> para la remoción mecánica/física y el comando del impacto.
Los grupos de interés se limitan al personal de las instalaciones; las sensibilidades son mínimas y conocidas. Hay un alcance limitado para consideraciones adicionales del ABAN durante una respuesta, comparadas con las ya efectuadas en la fase de preparación.
El derrame inunda una zona aislada, alcanza una zona circundante más allá de los límites del sitio e ingresa a un curso de agua.
La estrategia implica una combinación de técnicas de respuesta en tierra, por ejemplo, colocación de barreras para minimizar la distribución adicional, bombeado del hidrocarburo libre flotante y la remoción física cuidadosa de la superficie del suelo y la orillas del río.
Será necesaria la participación de una amplia gama de grupos de interés, incluidos los organismos normativos y las comunidades locales. Puede ser necesaria la consideración de una variedad de recursos medioambientales y las sensibilidades más importantes desde el punto de vista socioeconómico para la protección prioritaria y la limpieza adecuada.

Escenarios de planificación:	Participan varios escenarios representativos, que incluyen estaciones de bombeo del oleoducto, área de almacenamiento intermedio, terminales, etc. y eventos de derrames de hidrocarburos que podrían afectar ríos y cuerpos de agua, zonas urbana/industrial y zonas agrícolas, de recreación y de importancia ecológica.
Estrategia de respuesta:	Estrategia de respuesta global de alto nivel para el oleoducto con planificación genérica para diferentes situaciones y planificación de respuesta adicional específica al sitio y estrategias para las áreas de prioridad identificadas. Incluye una serie de técnicas de respuesta adecuadas para entornos terrestres y acuáticos.
Consideraciones del ABAN:	Hay grandes sensibilidades socioeconómicas y medioambientales. Hay una necesidad potencial de una serie particularmente alta de participación de los grupos de interés, dirigiendo las consideraciones del ABAN a apoyar las decisiones de respuesta adecuadas para el oleoducto en general y para ubicaciones específicas al sitio.



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

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Opción de respuesta	Beneficios	Inconvenientes
Eliminación natural	<ul> <li>Ninguna técnica de eliminación o limpieza que pudiera dañar adicionalmente al medio ambiente.</li> <li>Complementa otras técnicas de respuesta.</li> <li>Las observaciones y los datos obtenidos del monitoreo informan las decisiones de la respuesta y la selección de la herramienta.</li> <li>Puede ser la mejor opción si hay poca o ninguna amenaza al bienestar de las personas o el medio ambiente.</li> <li>Al utilizarse en ciertas zonas y condiciones, el medio ambiente se puede recuperar de un derrame de manera más eficaz que utilizando otras herramientas de respuesta.</li> </ul>	<ul> <li>El hidrocarburo no se puede eliminar.</li> <li>Los vientos y la corrientes pueden cambiar, enviando el derrame de hidrocarburos hacia zonas sensibles.</li> <li>El hidrocarburo residual puede impactar la ecología, la fauna y los recursos de importancia económica de la costa.</li> <li>La percepción pública de que el personal de respuesta no hace nada.</li> </ul>
Dispersante: aplicación en superficie Dispersantes: aplicación bajo la superficie del mar	<ul> <li>Menor mano de obra y requisitos logísticos que otras técnicas de respuesta.</li> <li>Se pueden aplicar en una amplia gama de condiciones climáticas.</li> <li>Mayor tasa de encuentro comparado con otras opciones en superficie.</li> <li>Operaciones continuas, de día y noche, de ser posible.</li> <li>Se puede aplicar en todas las condiciones climáticas, excepto en condiciones severas.</li> <li>Es posible una alta tasa de encuentro.</li> <li>Reduce la cantidad de hidrocarburo que se esparce a la costa, reduciendo el riesgo para las costas sensibles.</li> <li>Reduce el impacto en los recursos de la comunidad y la industria local.</li> <li>Ningún requisito para el almacenamiento del hidrocarburo recuperado.</li> <li>Menos vapores en la superficie del agua mejoran la seguridad del personal de respuesta.</li> </ul>	<ul> <li>Es posible que no funcione en hidrocarburos combustibles de alta viscosidad en mares tranquilos y fríos.</li> <li>Puede tener una "ventana de oportunidad" limitada para su uso.</li> <li>Tiempo de movilización más lento comparado con la aplicación en superficie.</li> <li>Impacto potencial en la industria pesquera si la población malinterpreta los efectos potenciales del dispersante en los mariscos.</li> <li>Generalmente se requiere aprobación reglamentaria antes de aplicar el dispersante.</li> </ul>



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

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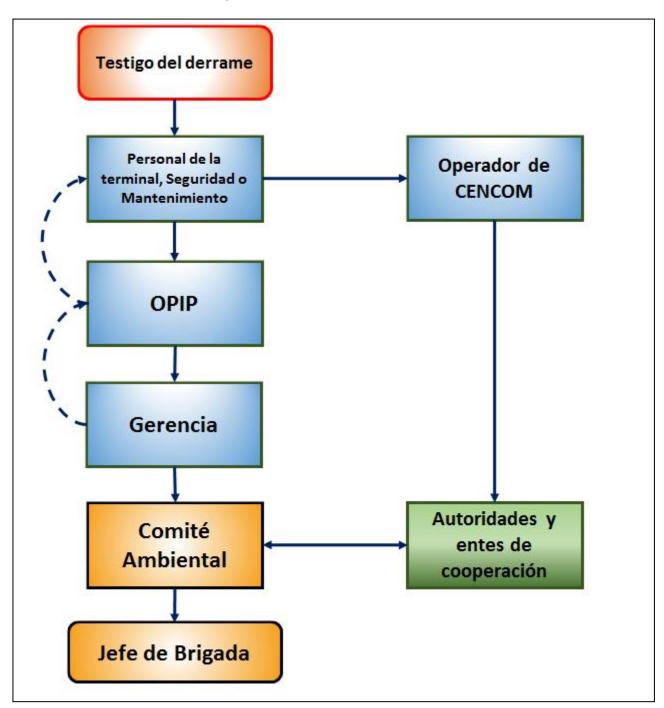
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Opción de respuesta	Beneficios	Inconvenientes
Combustión controlada <i>in situ</i>	<ul> <li>Eliminación rápida de grandes cantidades de hidrocarburos.</li> <li>Deja mucho menos hidrocarburo para eliminación.</li> <li>Altas tasas de eficacia (de hasta 98 a 99%).</li> <li>Se requiere menos equipo y mano de obra; el equipo especializado (barreras) se puede transportar por aire.</li> <li>Puede ser la única opción viable (por ejemplo, en marismas o hielo).</li> <li>Ningún requisito para el almacenamiento del hidrocarburo (excepto para los posibles residuos de la combustión).</li> <li>Eficaz en una amplia gama de tipos de hidrocarburos y condiciones.</li> <li>Mínimo impacto medioambiental.</li> <li>Menos vapores de hidrocarburo en la superficie del agua mejoran la seguridad del personal de respuesta.</li> </ul>	<ul> <li>Humo negro se percibe como un impacto significativo en las personas y la atmósfera.</li> <li>"Ventana de oportunidad" limitada para derrames en aguas abiertas (los hidrocarburos emulsionados no se queman).</li> <li>Se necesita captar y contener suficiente volumen de hidrocarburo y espesor de la mancha para que la quema <i>in situ</i> sea eficaz.</li> <li>La eficacia disminuye para hidrocarburos pesados a medida que el hidrocarburo envejece.</li> <li>La quema plantea un riesgo potencial a la salud.</li> <li>La quema plantea un riesgo potencial a la fauna costa afuera que se debe tratar.</li> <li>Los residuos de la quema pueden ser difíciles de recuperar (pueden hundirse de las quemas de hidrocarburos muy pesados).</li> <li>Se requieren aprobaciones especiales.</li> <li>Reducción localizada de la calidad del aire.</li> <li>Potencial de incendios secundarios durante uso en tierra.</li> <li>Ineficaz en inclemencias del tiempo o alta mar.</li> </ul>
Contención y recuperación en el mar	<ul> <li>Elimina el hidrocarburo con el mínimo impacto medioambiental.</li> <li>Bien aceptado, no se requieren aprobaciones especiales.</li> <li>Eficaz para recuperación en una amplia gama de productos derramados.</li> <li>Gran "ventana de oportunidad".</li> <li>Minimos efectos colaterales.</li> <li>La mayor disponibilidad de equipo y conocimientos.</li> <li>El producto recuperado se puede volver a procesar.</li> </ul>	<ul> <li>Inherentemente ineficaz y a menudo muy lento.</li> <li>A menudo no se puede recuperar suficiente hidrocarburo para evitar el impacto en la costa.</li> <li>Es más difícil recuperar una gran cantidad de hidrocarburo en casos de derrames mayores.</li> <li>Ineficaz e impráctico en manchas delgadas.</li> <li>Ineficaz en inclemencias del tiempo o alta mar.</li> <li>Requiere capacidad de almacenamiento.</li> <li>Normalmente no recupera más del 10 al 20% del hidrocarburo derramado.</li> <li>Requiere mucho equipo y mano de obra.</li> </ul>
Eliminación física en la costa	<ul> <li>Elimina el hidrocarburo.</li> <li>Reduce el potencial de esparcimiento adicional del hidrocarburo.</li> <li>Reducción de los impactos secundarios en animales que utilizan las costas.</li> <li>Evita la removilización del hidrocarburo.</li> <li>Los métodos no agresivos pueden tener un impacto mínimo en la estructura de la costa y los organismos costeros.</li> <li>Útil para la limpieza detallada del medio ambiente cerca de la costa en zonas específicas o sensibles.</li> </ul>	<ul> <li>Potencial de daño adicional al medio ambiente: los métodos de eliminación agresiva pueden impactar la costa y los organismos costeros (por ejemplo, la remoción y la limpieza de la arena).</li> <li>Requisitos para el almacenamiento y eliminación de residuos.</li> <li>Normalmente no recupera más del 10 al 20% del hidrocarburo derramado.</li> <li>Requiere mucha mano de obra.</li> <li>Posibilidad de que el tráfico de equipo pesado y a pie (pisoteo) puedan provocar daño adicional al medio ambiente.</li> <li>La eliminación ocurre después de que el hidrocarburo ya ha impactado la orilla.</li> <li>La respuesta en la costa puede requerir importantes recursos y apoyo logístico.</li> </ul>

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# 4.4. Alert and Notification Scheme

Below is the communications diagram for alert and notifications.



See list of internal and external contacts in point 8.2.

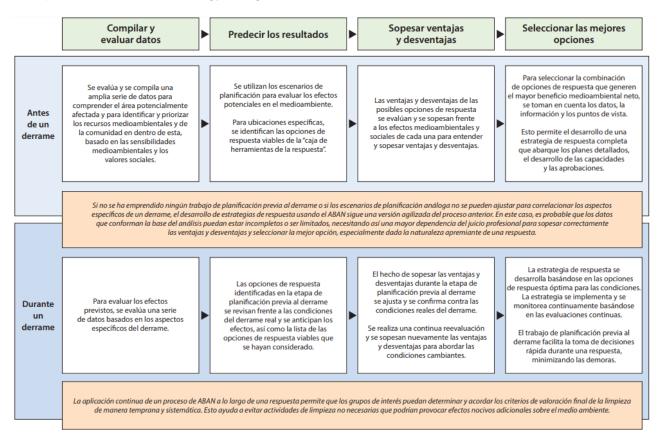
- Aller	Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances			ROATAN CRUISE TERMINAL	
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As can be seen in the diagram, the communication between Management and the OPIP is of both ways at the beginning acting immediately on the spill. Then, the Environmental Committee is the one who intervenes and the communication with the Brigade Chief is generated, who follows the natural chain of command downwards as indicated in point 2.1.1. Brigades.

# 4.5. Assessment. ABAN (Net Environmental Benefit Analysis)

The following tables have been obtained from Net Environmental Benefit Analysis for cases of fuel spills. At the same time, a Risk Analysis has been carried out with the possible scenarios. The most important points of an ABAN for a case of fuel spill are detailed.

Development of response strategy using ABAN.<sup>5</sup>



<sup>&</sup>lt;sup>5 y 6</sup> IMO/IPIECA (1996). Development of sensitivity maps for hydrocarbon spill response.

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### 4.5.1. Fuel on the coast<sup>6</sup>

If large amounts of moving fuel are present on the surface of the coast, a rapid response will be necessary before the fuel spreads over a wider area. Ecological recovery times can be reduced with the rapid action to remove asphyxiating or especially toxic hydrocarbon. On the contrary, more time may be allowed for decisions that refer to smaller amounts of hydrocarbon exposed and attached firmly to the coast or retained below the surface.

For many of the fuel spills that do not involve toxic or particularly heavy hydrocarbon deposits, moderate cleanliness of the coast has little or no effect on the recovery rates of coastal organisms in the long term, that is, for organisms that live on the coast such as mollusks and algae. This is an important point for the response of the coast, because it raises key questions for decision-making regarding cleanliness.

It seems likely that the least ecological damage would be the result of a moderate level of cleanliness enough to remove most of the hydrocarbon, but soft enough to leave the surface of the coast intact and to prevent the hydrocarbon from going inside the sediments being hidden.

Table of benefits and disadvantages of the different response options to a fuel spill.<sup>7</sup>

<sup>&</sup>lt;sup>7</sup> IPIECA. Development of response strategies using the net environmental benefit analysis (ABAN) http://www.oilspillresponseproject.org/wp-content/uploads/2017/02/NEBA\_SP.pdf

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Option	Benefits	Inconvenient
Dispersant applied on offshore surface	Eliminates surface hydrocarbon that could harm wildlife and prevents hydrocarbon from spreading to the coast; It improves the natural biodegradation of the hydrocarbon and reduces the vapors that occur on the sea surface.	Dissolved hydrocarbon has the potential to initially affect local marine fauna.
Containment and recovery at sea	Eliminates hydrocarbon with minimal environmental impact.	Recovery by mechanical means can be inefficient, use many resources and be constrained by water conditions, and usually fails to recover more than 10-20% of the hydrocarbon.
On-site controlled burning	Large quantities of hydrocarbon are rapidly removed by controlled combustion on-site	Combustion presents a potential safety risk and a reduction in air quality at the specific location; combustion residues can be difficult to recover. The effectiveness depends on the characteristics of the hydrocarbon and the sea conditions.
Shoreline Cleaning	The environmental and social value of specific places is selectively restored through the use of a variety of tools.	Aggressive or inappropriate disposal methods can affect individual ecosystems and organisms.
Natural processes	Natural processes are used for the elimination of hydrocarbon, including biodegradation and intrusive cleaning techniques that can cause additional damage to the environment are avoided.	With natural elimination it may take longer to return to the environmentto its state prior to spillage than with other response techniques.

# 4.6. Sampling

ROATAN CRUISE TERMINAL has a working agreement with the AGROINDUSTRIALES LABORATORY located in San Pedro Sula. In case of taking samples, whether of soil, water, hydrocarbons, etc., to analyze them, ROATAN CRUISE TERMINAL will be in charge of all the logistics so that the Agroindustriales Laboratory personnel move to the terminal facilities to perform these tasks.

### 4.7. Response Operations

In the event of a spill at the local level within the Terminal's facilities, ROATAN CRUISE TERMINAL has the capacity, equipment and structure, to act quickly in containment and thus prevent a spill into the waters adjacent to the facility.

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In the event of a spill or discharge by a ship, the terminal will collaborate with everything possible to minimize the impact. See detail in section 3.6.2. Environmental Management System Procedures HYDROCARBON SPILL CONTINGENCY PLAN, subsections: 39. and 40.

### 4.8. Monitoring and Surveillance

ROATAN CRUISE TERMINAL has established in its Environmental Management System and has the resources and the capacity to carry out monitoring and surveillance tasks in the areas adjacent to the port facility.

See point 3.6.2. Environmental Management System Procedures FUEL SPILL CONTINGENCY PLAN, subsections: 22 to 34.

In addition, see point 3.6.2. Procedures of the Environmental Management System MANAGEMENT OF THE COASTAL AND MARINE ENVIRONMENTS – **The Ships**; and subsections 39. to 42.

### 4.9. Containment and Recovery

ROATAN CRUISE TERMINAL has the equipment described in Appendix IV - Stock of contingency equipment for fuel spills in the Terminal, to absorb more than 1,260 gallons in the event of a spill or discharge. At the same time it has stock of 205 liters PVC barrels suitable for temporary storage of recovered substances, as well as tools and suction pumps to carry out the tasks correctly.

### 4.10. Use of chemical agents and dispersants

Since the possibilities of a spill of hydrocarbons or other harmful and potentially dangerous substances into the aquatic environment are VERY UNLIKELY (see point 3.3. Probability and Consequence) and the quantities are LIMITED, this subsection does not apply. However, ROATAN CRUISE TERMINAL has a detergent stock described in Annex 5 - as part of the Stock of the contingency equipment for fuel spills in the Terminal, to clean the facilities, tools and equipment that could become contaminated with any of these hydrocarbons.

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Even so, it should be clarified that the Republic of Honduras does not have an established policy regarding the use of dispersants or chemical agents as a mechanism of reaction to an episode of contamination due to fuel spills or other harmful and potentially dangerous substances, so the use of dispersants, if necessary, will depend on the authorization of the Ministry of Natural Resources and Environment (MiAmbiente) and the General Directorate of the Merchant Marine. As established in section 3.6 of the PNCH.

# 4.11. Burning in situ

Due to the nature of the operation, the volumes of hydrocarbons and the types of "potentially polluting elements" that are stored in the Terminal, in-situ burning does not apply.

If in situ burning is necessary in case of spillage, it must be previously evaluated and authorized by the DGMM, the Ministry of Natural Resources and Environment, and the Fire Department.

# 4.12. Treatment of sea and river coasts

ROATAN CRUISE TERMINAL is committed to ensuring the care of the coasts, mangroves, wetlands and so is established in its Environmental Management System. See points 3.6.2. Procedures of the Environmental Management System, (e.) MANAGEMENT OF THE COASTAL AND MARINE ENVIRONMENTS, subsections 22 to 34.

# 5. POST EVENT ACTIONS

# 5.1. Transport and storage

Taking into account that the quantities of fuel or potentially dangerous harmful substances that are handled in ROATAN CRUISE TERMINAL are limited, the transport and storage of possible residues (both liquids and solids that were used to absorb, contain and recover them) that are recovered, on existing 205-liter drums and in the Spill Kit container detailed in Appendix IV - Stock of contingency equipment for fuel spills in the Terminal and will be temporarily deposited in the area intended for the purpose detailed in point 5.2.

<sup>9</sup>Requirements for Controlled Burning in the PNCH, point 3.7.

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### 5.2. Waste management

It is a commitment of ROATAN CRUISE TERMINAL that the waste will be disposed of in an appropriate manner and as approved by the corresponding local authorities and is thus established in its Environmental Management System. See points 3.6.2. Procedures of the Environmental Management System.

In this sense, there is a specially designed area with a red roof and a containment layers, destined exclusively for the temporary disposition of the drums and other waste generated during the cleaning in case of an episode of contamination. See point 5.1. and Annex 10.

### 5.3. Final disposition

The deposit mentioned in point 5.2 will be exclusively for temporary disposal since the waste would then be removed by the Nelson Rittenhouse supplier that disposes of them on the mainland of Honduras.

See also section 3.6.2. of the Environmental Management System, FUEL SPILL CONTINGENCY PLAN - For Facilities, paragraph 37. b. and 38.

### 5.4. Decontamination

If necessary after a spill incident in which the responsibility is attributable to ROATAN CRUISE TERMINAL, it undertakes to carry out the decontamination tasks using the best techniques and practices for it, according to international norms and standards.

### 5.5. Actions planned for the treatment of affected wildlife

If necessary after a spill incident in which the responsibility is attributable to ROATAN CRUISE TERMINAL, it undertakes to carry out the work for the treatment of the affected wildlife, using the best techniques and practices for them, according to the experiences raised internationally in the matter of fuel spills.

### 5.6. Post Incident Monitoring

ROATAN CRUISE TERMINAL will carry out post-incident monitoring tasks, in order to ensure that the fauna and flora of the ecosystem are in recovery according to the plan established for it, depending on the case. See point 3.6.2, Environmental Management System (i). OTHER ENVIRONMENTAL ASPECTS, subsection 52.

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# 6. PUBLIC INFORMATION AND PRESS MEDIA

# 6.1. Company Information Policy

In the event of a contingency of spill or discharge of hydrocarbons or harmful or potentially dangerous substances in which ROATAN CRUISE TERMINAL is involved, all the current provisions and policies of the company will be followed to divulge and give information to the media communication and the general public.

# 7. SECURITY

# 7.1. Industrial Security Policy of the Company

As already mentioned throughout this document, ROATAN CRUISE TERMINAL, has a strong Environmental Policy with enough actions aimed at preserving and protecting, not only the environment, but also the safety of personnel. This is reflected in the Environmental Management System cited in section 3.6. This document mentions the following points that refer to Industrial Safety, Occupational Health and First Aid. Some of them are cited below:

**"46.** ROATAN CRUISE TERMINAL will ensure compliance with the provisions of the Health Code, the Labor Code and associated regulations.

**47.** ROATAN CRUISE TERMINAL staff uses the necessary protective equipment, depending on the activity to be performed. For the above purpose, staff receives training on the importance and proper use of personal protective equipment.

**48**. ROATAN CRUISE TERMINAL has installed at least three first aid kits with the necessary implements in each work environment. These kits have been placed, equipped and labeled correctly to ensure easy access for staff."

For the fulfillment and knowledge of the personnel of all these points, ROATAN CRUISE TERMINAL, continuously develops a personnel training program.

Annex 6 shows the training schedule for the current year, in addition ROATAN CRUISE TERMINAL requires employees to complete annual awareness training on protection and contingencies to ensure they have knowledge to report on certain relevant elements and warning methods and Alert in case of emergency or spills.

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# 8. COMMUNICATIONS, CONTACTS, LEGAL AND FINANCIAL MATTERS

# 8.1. Communications

To ensure easy communication with support and response entities in case of emergency or contingency, there is a list of telephone numbers and names of contact persons. Likewise, there is a list of telephone numbers to locate their own personnel for any emergency during non-working hours and days.

The first contact in case of a spill, discharge or identify a spot in the water mirror or other contingency, is the OPIP, Gassler Cook. He will be in charge of notifying the rest of the Management team. Then, the Directorate will evaluate the need to bring together the Environmental Committee to deal with the contingency.

# 8.2. Internal and External Contacts.

	Internal contacts in case of contingency					
N٥	Position	Name	Mobile phone			
1	OPIP	Gassler Cook	9459-0810			
2	General Manager	Luis Colon	9503-6581			
3	Maintenance manager	Jorge Guillen	9459-0804			
4	Accounting Controller	Maribel Fúnez	9459-0803			
5	Environmental Regent	Elena González	9551-0145			
6	Office Manager	Danielly Hynds	9459-0808			
7	CENCOM	Keydie Cook	9459-0816			
8	IT	Joseph Webster	9992-9344			

Likewise, each Manager will be responsible for contacting the personnel of his area that corresponds to respond to the contingency. The OPIP, or whoever he designates, will be responsible for contacting the appropriate personnel of the Security Department:

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	RCT-SECURITY Department					
N٥	Name	Mobile Phone				
1	Carlos Callejas	9516-3959				
2	Casper Rich	3215-1355				
3	Elvin Romero	3301-8339				
4	Harson Hinds	3247-8733				
5	Jose Orellana	9519-1608				
6	Lirio Aranda	8964-4006				
7	Nelson Rivera	9766-5424				
8	Simon Green	9436-0710				
9	Zuidie Bernard	9436-0520				

The Maintenance Manager, or his designee, will be in charge of contacting the corresponding personnel of the Maintenance Department:

	RCT-MAINTENANCE Department				
Nº	Name	Mobile phone			
1	Darwin Brooks	9914-9205			
2	Edwin Hernández	8859-0445			
3	Darcy Palacios	9964-5856			
4	Kenny Guzmán	9665-9810			
5	Edwin Mejía	3189-0392			
6	Javier Zelaya	9916-9219			
7	Wilmer Bustillo	9436-0248			

The contacts of external collaborating entities in the event of a contingency are detailed below:

	External contacts in case of contingency							
Nº	Entity or Institution	Mobile phone	Landline					
1	DGMM, Dept. Marine Environment Protection	9827-3483	2239-8228 ext. 206					
2	Port Captaincy DGMM	9846-7781	2445-1262					
3	COPECO Reg. 1 La Ceiba Sub. Com. Reg. Abraham	9590-0001	2441-5827					
3	Mejía Griffin	Central	2229-0606					
4	CODEM	9778-3827						
5	Ambulance / Fire Station Roatán	9918-8970	2445-0430					
6	Red Cross	9995-1943	2445-0428					
7	National Police - Los Fuertes, Roatán	2455-6438/6449	2455-6471					
8	National Police Post - French Harbor	9930-7634						
9	National DPI Police - (Sr. Rodríguez)	9502-9505						

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10	Commissioner DPI - (Raúl Mejía)	9440-0320	
11	Deputy Commissioner - (Sr. Ardon)	8907-6045	
12	Roatán Hospital	2445-1227	
13	Woods Medical Center Private Hospital	2445-1080	
14	Esperanza Clinic	2445-3234	
15	Roatán Municipality	2445-1299/1276	2445-1972
16	Municipal Police - Coxen Hole	2445-0416	
17	Municipal Police - Director Joseph Solomon	9996-4749	
18	Santos Guardiola Municipality	2435-2183	
19	Anacaribe	2445-1627	2445-1086
20	Customs	2445-1315	
21	Roatán immigration	2445-1326/1148	
22	OIRSA	2445-1620	
23	Roatán Electric Company - RECO	Ext. 1 y 114	2407-2170/73
24	Hondutel	2445-1325	2445-1414
25	Town Center - Port of Roatán - (Albara Duran)	2445-3799	
26	Roatán Marine Park - (Héctor)	2445-4206 / 9430-3194	9477-5548 / 9430-3196
27	Air Evac - (Daniel Cartagena)	9560-9945	
28	National Commission for Port Protection - CNPP		2243-3787 / 2233-4696
29	Honduran Naval Force		3249-8446

# 8.3. Financial aspects

### 8.3.1. Funds provided

ROATAN CRUISE TERMINAL has established financial funds to face a contingency such as spillage or discharge of fuel and harmful and potentially dangerous substances.

## 8.3.2. Compensation

ROATAN CRUISE TERMINAL also has the appropriate insurance policies to pay compensation that corresponds to the coverage of a spill or discharge of hydrocarbons and harmful and potentially dangerous substances and their consequences.

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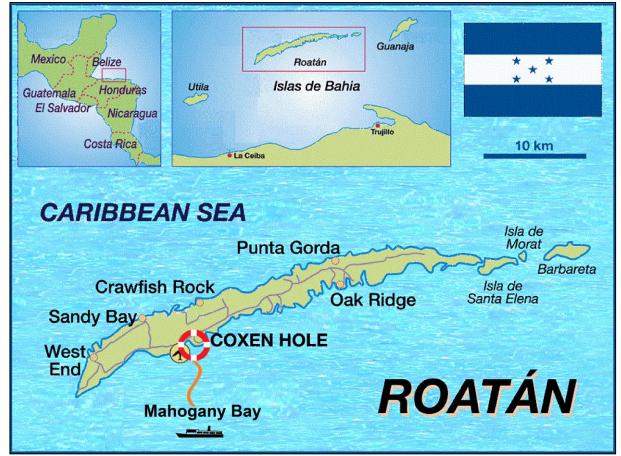
# 8.4. Legal Issues

ROATAN CRUISE TERMINAL has a corporate Legal Department, which is prepared to work proactively and provide advice in case of incidents, spills, discharges of hydrocarbons and harmful and potentially dangerous substances and other contingency.

X	Plan de Contingencia Ante Derrame de Hidrocarburos y Sustancias Nocivas y Potencialmente Peligrosas			ROATAN CRUISE TERMINAL	
	Elaborado por	Revisado por	Aprobado por	Fecha	Revisión
Mahogany Baif	INTERMARIS	ROATAN CRUISE TERMINAL	DIRECCIÓN GENERAL DE MARINA MERCANTE	Diciembre-2019	1

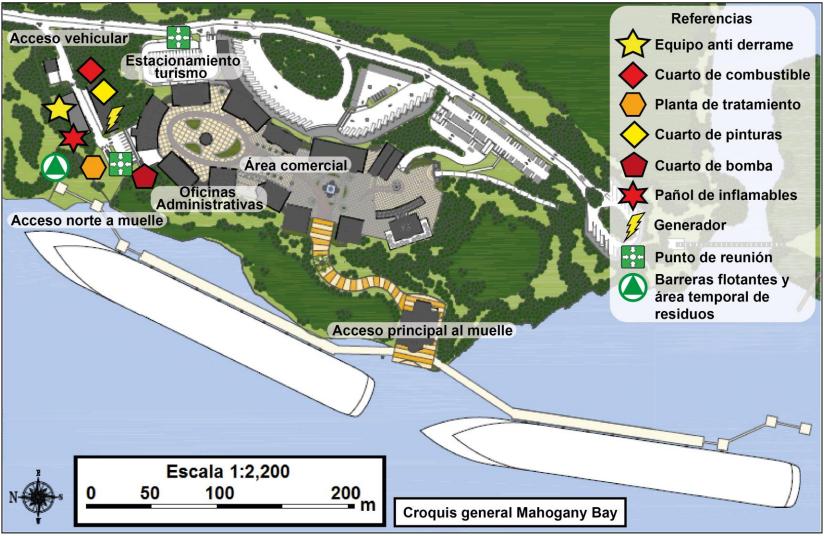
# **ANNEX 1 - Installation Plans and Nautical Chart**

Annex 1.1. Location on the map of Bay Islands.



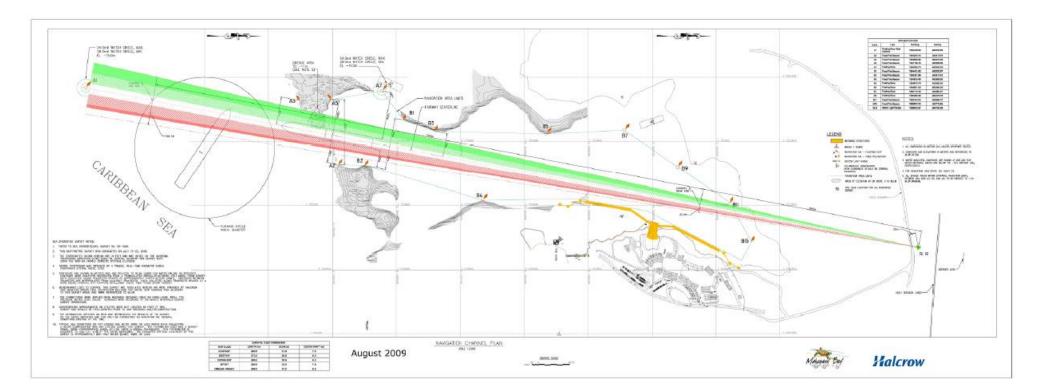
Annex 1.2. General Plant of the Terminal with references.

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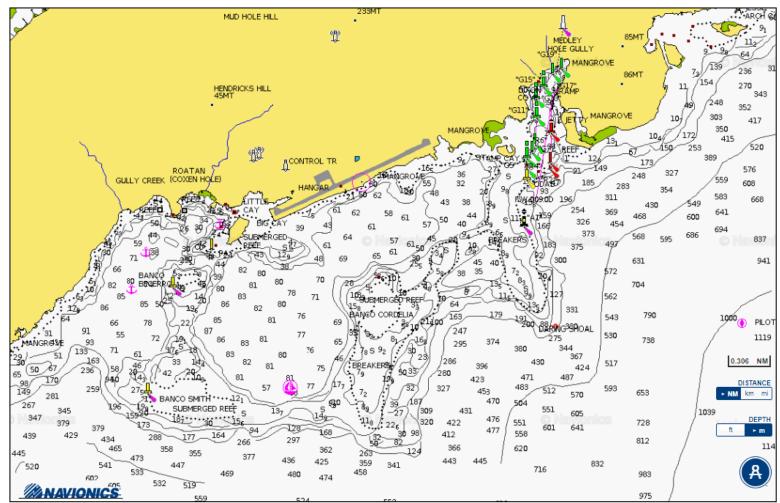
Annex 1.3. Nautical Chart Navigation Channel.<sup>8</sup>



<sup>&</sup>lt;sup>8</sup> Roatan - Navigation-Channel-14Aug2009

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Annex 1.4. Access and proximity to ROATAN CRUISE TERMINAL. Nautical Chart web.<sup>9</sup>



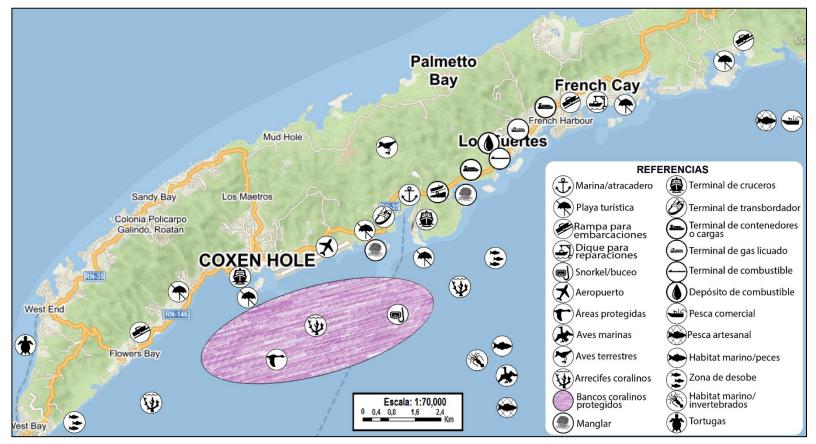
<sup>&</sup>lt;sup>9</sup> Source: <u>https://illuka.es/charts/carta-nautica-mar-caribe.html</u>

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# ANNEX 2 Resource Sensitivity Maps

After a study of the available information, the following figures have been developed within Annex 2 (separate document):





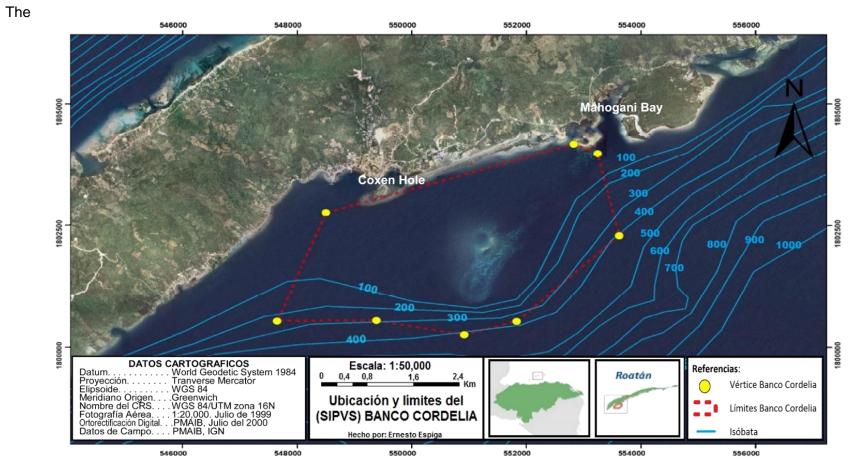
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# Annex 2.2. Map of: Banco Cordelia - Protected Coral Reserve

Location and limits of the Cordelia Bank, protected coral bank area between Coxen Hole and Dixon Cove (Mahogany Bay). Site of importance for wildlife.

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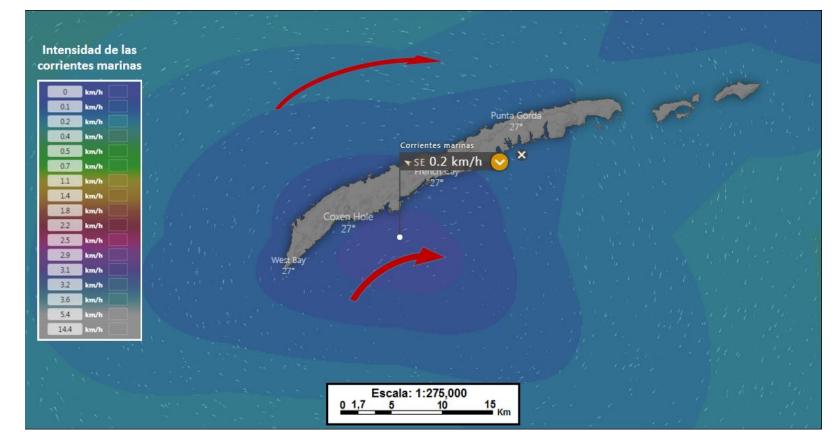
Source: http://reefresilience.org/es/



# Annex 2.3. Map of: Predominant marine currents in Roatan

predominant sea currents normal weather conditions in Roatán are from the West Southwest to Southwest sector and of low intensity.

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Source:

https://www.windy.com

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# Annex 2.4. Map of: Predominant marine currents in the Dixon Cove area, Roatan

The predominant marine currents in Dixon Cove are from the West Southwest to Southwest sector with a speed between 0.1 and 0.2 K / h.

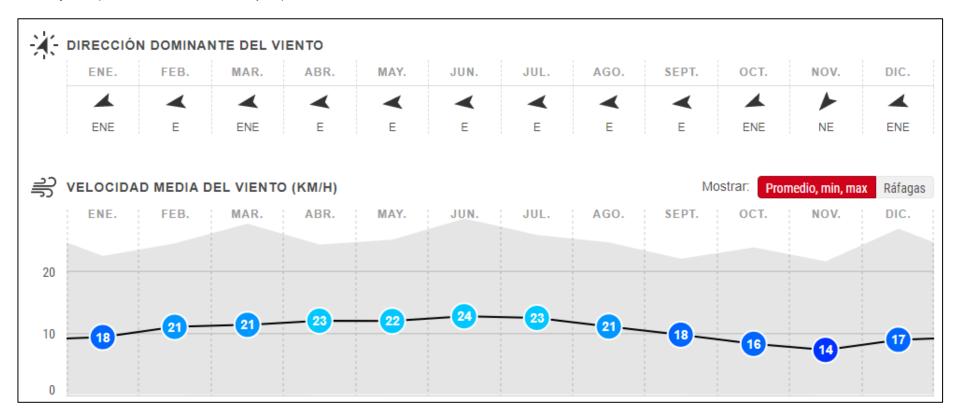


Source: https://www.windy.com

X		ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
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# Annex 2.5 Dominant winds in Roatán

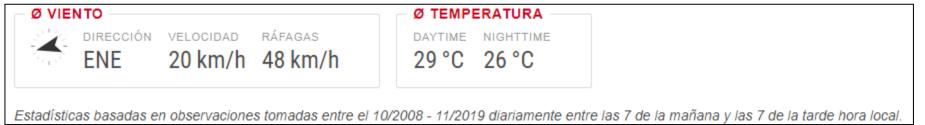
The dominant wind directions go from East to Northeast and the average speed ranges between 14 and 24 Km / h depending on the month of the year, (measured at Roatán Airport).



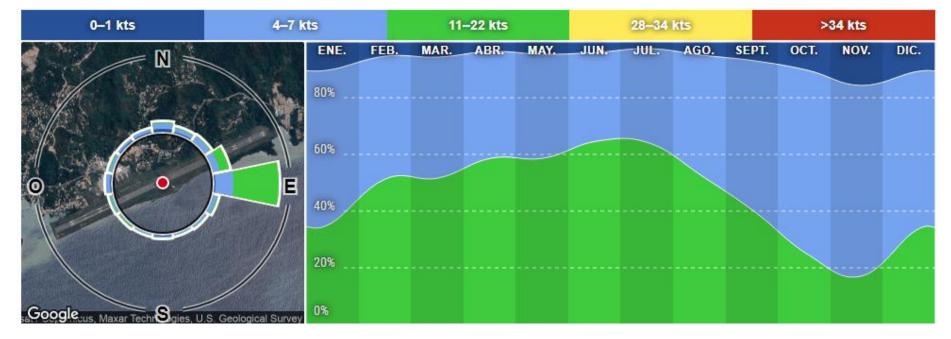
200		ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
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# Annex 2.6. Wind statistics in Roatán

The average wind speed and temperature, measured at Roatán Airport.



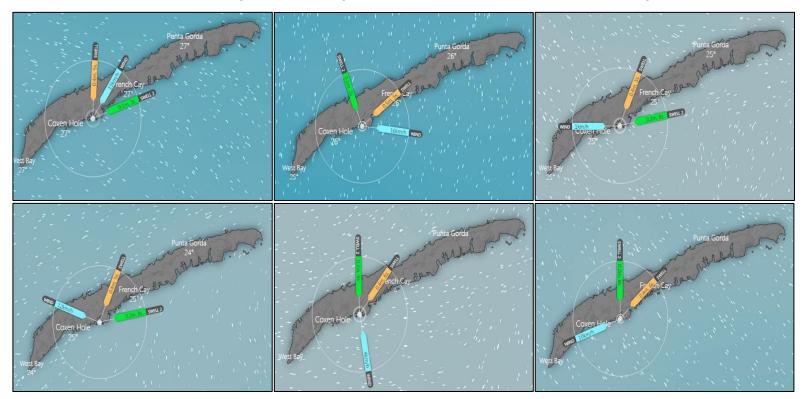
Distribution of wind direction and force during the months of the year, measured at Roatán Airport.



X		ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
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Annex 2.7. Wave scenarios at Dixon Cove, Roatan.

Simulation of different scenarios, according to the recurring winds in Dixon Cove, Roatan and the waves generated in each condition.



Definitions Wind: surface wind. Waves I: primary waves. Waves 2: secondary waves.

Source: https://www.windy.com

2000	-	ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
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# Annex 2.8. Bibliography and sources of consultation

In addition to the websites mentioned in each figure, the following publications were consulted:

- BIOLOGICAL BASE LINE FOR THE FRENCH CAY FISHING RECOVERY AREA, ROATÁN. Mayra Núñez. Center for Marine Studies.
   2017 edition.
- PLAN FOR A NETWORK OF REPLENISHMENT ZONES (RZS) IN NORTHERN HONDURAS. Iliana Chollett. Smithsonian Institution, Fort Pierce, July 2017 Edition.
- BIOPHYSICAL PRINCIPLES FOR THE DESIGN OF A NETWORK OF RECOVERY ZONES IN THE MESOAMERICAN ARRECIFAL SYSTEM. Technical report produced by The Nature Conservancy, Community and Biodiversity, A.C., Smithsonian Institution. 2017 edition.
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  Conservation and Development, Protected Areas and Wildlife (ICF). http://www.icf.gob.hn. 1st Edition, April 2015.
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	Hidrocar	Contingencia / buros y Susta tencialmente	ROATAN CRUISE TERMINAL		
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# ANNEX 3 Characteristics of the materials operated by the company: fuel and their derivatives, harmful and potentially dangerous substances.

The following table shows the classification, expedition name, UN number and Emergency Card, other details such as the properties detailed in the IMDG Code for these substances.

N <sup>0</sup> UN	Nombre de expedición	Clase o división	Riesgo(s) secun- dario(s)	FEm	Estiba y manipulación	Segregación	Propledades y observaciones	N <sup>0</sup> UN
(1)	(2) 3.1.2	(3) 2.0	(4) 2.0	(15) 5.4.3.2 7.8	(16a) 7.1, 7.3 a 7.7	(16b) 7.2 a 7.7	(17)	(18)
1202	GASOIL O COMBUSTIBLE PARA MOTORES DIESEL O ACEITE MINERAL PARA CALDEO, LIGERO	3	-	F-E, S-E	Categoria A	-	inmiscible con el agua.	1202
1203	COMBUSTIBLE PARA MOTORES o GASOLINA	3	-	F-E, S-E	Categoria E	-	Inmiscible con el agua.	1203
1789	ÁCIDO CLORHÍDRICO	8	-	F-A, S-B	Categoria C	-	Liquido incoloro. Solución acuosa de cioruro de hidrógeno (gas). Sumamente corrosivo para la mayoria de los metales. Causa quemaduras en la piel, los ojos y las mucosas.	1789
1791	HIPOCLORITO EN SOLUCIÓN	8	P	F-A, S-B	Categoria B	SG20	Liquido con olor a cioro. En contacto con àcidos desprende gases muy irritantes y corrosivos. Levemente corrosivo para la mayoria de los metales. Causa quemaduras en la piel, los ojos y las mucosas.	1791

Next, the Emergency Response Guidelines for the UN of each substance are detailed and then the corresponding Guidelines are attached.

- Diesel (Diesel) UN 1202: Guide 128.
- Gasoline UN 1203: **Guide 128**.
- Hydrochloric Acid (Muriatic) UN 1789: Guide 157.
- Sodium hypochlorite in solution (Chlorine) UN 1791: Guide 154.

- Alle	-	ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
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### 128 (NOT MIXABLE WITH WATER)

### POTENTIAL HAZARDS

### FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: It can easily catch fire from heat, sparks or flames.
- Vapors may form explosive mixtures with air.
- Vapors travel to a fire source and return on fire.
- Most vapors are heavier than air, these will disperse along the ground and will gather in low or confined areas (sewers, basements, tanks).
- Danger of steam explosion indoors and outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or are involved in a fire.
- The resulting leaks falling into the sewers can create a fire or explosion hazard
- Containers may explode when heated.
- Many of the liquids are lighter than water.
- The substance can be transported hot.
- For hybrid vehicles, GUIDE 147 (Lithium Ion Battery) and GUIDE 138 (Sodium batteries) should also be consulted.

#### • If involved in casting aluminum, use GUIDE 169.

#### TO HEALTH

- Inhalation or contact with the material may irritate skin and eyes.
- Fire can produce irritating, corrosive, and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Leaks resulting from fire control or dilution with water may cause contamination.

### PUBLIC SAFETY

- Call the phone number on the boarding document first in case of emergency. If the boarding document is not available or there is no response, go to the phone numbers listed on the back-cover lining.
- As an immediate precaution, isolate the spill or escape area at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Keep upwind in high areas and/or upstream.
- Ventilate any closed spaces before entering.

### **PROTECTIVE CLOTHING**

- Use the autonomous positive pressure air equipment (SCBA).
- Professional firefighters' suits provide only limited protection.

#### EVACUATION

#### Big Spill

• Consider the initial evacuation following the wind path of at least 300 meters (1000) feet.

Fire

 If a tank, rail car, or auto-tank involved in a fire, ISOLATE 800 meters (1/2 mile) around; Consider the initial evacuation of 800 meters (1/2 mile) all around.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please refer to the boarding documents and/or the ERAP program section (Page 392).

2000			pills of Fuels and ally Hazardous ces	ROATAN CRUISE TERMINAL	
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### 128 (NOT MIXABLE WITH WATER)

### EMERGENCY RESPONSE

### FIRE

CAUTION: All products have a very low ignition point; Water usage while fighting the fire can be ineffective. CAUTION: For mixtures containing alcohol or polar solvent, alcohol resistant foam may be more effective. Small Fire

Dry chemical pulses, CO2, dew or regular foam.

#### Big Fire

- Use water spray, mist or regular foam.
- Don't use direct jets.
- Move containers from the fire area if it's possible and if there's no risk.

#### Fire Involving Tanks, or Wagons, or Trailers and their Loads

- Fight the fire from a maximum distance or use fixed supports for hoses or regulating chiffons.
- Cool the containers with water jets even after the fire is extinguished.
- Stay away immediately if a growing sound is coming from the ventilation mechanism, or if the tank begins to discolor.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fires, use fixed hose holders or regulating chiffons; if this is impossible, leave the area and let it burn.

### SPILL OR LEAK

- REMOVE all sources of ignition (Don't smoke, don't use flares, sparks or flames in the danger area).
- All equipment used during product handling must be electrically grounded.
- Don't touch or walk through spilled material.
- Stop the leak if you can do it without risk.
- Stop the entrance to waterways, sewers, basements or confined areas.
- A vapor suppressor foam can be used to reduce vapors.
- Absorb with dry earth, sand or other non-combustible absorbent material and transfer it to containers.
- Use clean spark-proof tools to collect the absorbed material

#### Big Spill

- Build a dike ahead of the liquid spill for later disposal.
- Water spray may reduce steam but may not prevent ignition in confined spaces.

#### FIRST AID

- Make sure medical personnel are aware of the materials involved and take precautions to protect the victim.
- Move the victim to somewhere with fresh air.
- Call emergency medical services.
- Apply CPR if the victim is not breathing.
- Supply oxygen if the victim has breathing issues.
- · Remove and isolate any contaminated clothing and shoes
- In case of contact with the substance, immediately rinse the skin or eyes with running water for at least 20 minutes.
- Wash the skin with soap and water.
- In case of burn, immediately cool the affected skin as long as you can with cold water. Don't remove clothing that's
  adhered to the skin.
- Keep the victim calm and warm.

	Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances			ROATAN CRUISE TERMINAL	
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#### GUIDE Substances - Toxic and / or Corrosive 157

## (NON-COMBUSTIBLE / SUSCEPTIBLE TO WATER)

## POTENTIAL HAZARDS

## TO THE HEALTH

- **TOXIC:** Inhalation, ingestion or contact with vapors (skin, eyes) dusts or substances can cause severe injury, burns or death.
- Reaction with water, moist air could produce toxic, corrosive and flammable gases.
- Reaction with water can generate a lot of heat, which will increase the concentration of fumes in the air.
- Fire will produce irritating, corrosive and toxic gases.
- Leaks resulting from fire control or dilution with water may be corrosive and/or toxic and cause contamination.

## FIRE OR EXPLOSION

- Non-combustible substances don't ignite on their own, but they can decompose when heated, and produce corrosive and toxic vapors.
- For high concentrations of UN1796, UN2031 and for UN2032, these can act as oxidants. Also refer to GUIDE 140.
- Vapors can accumulate in confined areas (basement, tanks, rail and hopper cars, etc.).
- The substance can react with water (sometimes violently) releasing corrosive and / or toxic gases and spills.
- Contact with metals can release gaseous and flammable hydrogen.
- Containers may explode when heated or if contaminated with water.

## PUBLIC SAFETY

## Call the phone number on the boarding document first in case of emergency. If the boarding document is not available or there is no response, go to the phone numbers listed on the back-cover lining.

- As an immediate precaution, isolate the spill or escape area in all directions at least 50 meters (150 feet) for liquids, and 25 meters(75 feet) for solids.
- Keep unauthorized personnel away.
- Keep upwind in high areas and/or upstream.
- Ventilate any closed spaces before entering.

## **PROTECTIVE CLOTHING**

- Use the autonomous positive pressure air equipment (SCBA).
- Wear chemical protective clothing which is recommended by the manufacturer. This can provide little or no thermal protection.
- The firefighter's structural protective suit provides limited protection ONLY in fire situations; It's not effective in spills with possible direct contact with the substance.

## **EVACUATION**

## Spills

See Table 1 – Initial Isolation Distance and Protective Action for highlighted materials. For other materials, increase the insolation distance as necessary in relation to the wind direction, as shown in "PUBLIC SAFETY".

## Fire

If a tank, rail car, or auto-tank involved in a fire, ISOLATE 800 meters (1/2 mile) around; Consider the initial evacuation of 800 meters (1/2 mile) all around.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please refer to the boarding documents and/or the ERAP program section (Page 392).

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#### GUIDE Substances - Toxic and / or Corrosive 157

## (NON-COMBUSTIBLE / SUSCEPTIBLE TO WATER)

## EMERGENCY RESPONSE

## FIRE

Note: Some foams may react with the material and release corrosive/toxic gases. •

## Small Fire

CO<sub>2</sub> (except for cyanides), dry chemical powder, dry sand, alcohol resistant foam.

## **Big Fire**

- Use water spray, mist or alcohol-resistant foam. •
- Move fire area containers if you can do it without any risk.
- Use water spray. Do not use direct jets.
- Make a containment dam for the water that controls the fire for later disposal; don't spread the material.

## Fire Involving Tanks, or Wagons, or Trailers and their Loads

- Fight the fire from a maximum distance or use fixed supports for hoses or regulating chiffons.
- Don't get water inside containers.
- Cool the containers with water jets even after the fire is extinguished.
- Stay away immediately if a growing sound is coming from the ventilation mechanism, or if the tank begins to discolor.
- ALWAYS stay away from tanks engulfed in fire.

## SPILLAGE OR LEAK

- ELIMINATE all sources of ignition (Don't smoke, don't use flares, sparks or flames in the danger area).
- All equipment used during product handling must be electrically grounded.
- Don't touch damaged containers or spilled material, unless you are wearing appropriate protective clothing.
- Stop the leak if you can do it without risk.
- A vapor suppressor foam can be used to reduce vapors.
- DON'T GET WATER INSIDE THE CONTAINERS.
- Use water spray to reduce vapors; or divert the drifting steam. Prevent water flows from meeting spilled material.
- Prevent entry to waterways, sewer, basements confined areas.

## Small spill

- Cover with DRY earth, DRY sand or other non-combustible material followed with a plastic film to decrease expansion • or contact with rain.
- Use clean, spark-proof tools to collect the material and deposit them in plastic lined containers for later disposal.

## FIRST AIDS

- Make sure medical personnel are aware of the materials involved and take precautions to protect themselves. •
- Move the victim to where fresh air is breathed.
- Call emergency medical services.
- Apply CPR if the victim is not breathing.
- Do not use the mouth-to-mouth breathing method if the victim ingested or inhaled the substance: Provide artificial respiration with the help of a pocket mask with a one-way valve or other medical breathing device.
- Supply oxygen if the victim has difficulty breathing
- Remove and isolate contaminated clothing and shoes.
- In case of contact with the substance immediately rinse the skin or eyes with running water for at least 20 minutes. •
- In case of contact with Hydrofluoric Acid (UN1790), rinse with plenty of water. For skin contact if you have calcium gluconate gel, rinse for 5 minutes, and then apply the gel. Otherwise, continue rinsing until you can receive medical treatment. For eye contact, rinse with water or a saline solution for 15 minutes.
- For minor contact with the skin, avoid spreading the material on the skin that is not affected.
- Keep the victim calm and warm.
- The effects of exposure to the substance by (inhalation, ingestion or skin contact) may be delayed.

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# GUIDESubstances - Toxic and / or Corrosive154(NON-COMBUSTIBLE)

## POTENTIAL HAZARDS

## TO HEALTH

- **TOXIC**; Inhalation, ingestion or contact of the material with the skin may can cause severe injury or death.
- Contact with molten substance can cause severe burns to the skin and eyes.
- Avoid contact with skin.
- The effects of contact, or inhalation may be delayed.
- Fire will produce irritating, corrosive and toxic gases.
- Leaks resulting from fire control or dilution with water may be corrosive and/or toxic and cause contamination.

### FIRE OR EXPLOSION

- Non-combustible substances don't ignite on their own, but they can decompose when heated, and produce corrosive and toxic vapors.
- Some are oxidizers can ignite other combustible materials (wood, oil, clothing, etc.)
- Contact with metals can release gaseous and flammable hydrogen.
- Containers may explode when heated.
- For electric vehicles or equipment, GUIDE 147 (Lithium-ion battery) or GUIDE 138 (Sodium batteries) should also be consulted.

### PUBLIC SAFETY

# Call the phone number on the boarding document first in case of emergency. If the boarding document is not available or there is no response, go to the phone numbers listed on the back-cover lining.

- As an immediate precaution, isolate the spill or escape area in all directions at least 50 meters (150 feet) for liquids, and 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Keep upwind in high areas and/or upstream.
- Ventilate any closed spaces before entering.

## PROTECTIVE CLOTHING

- Use the autonomous positive pressure air equipment (SCBA).
- Wear chemical protective clothing which is recommended by the manufacturer. This can provide little or no thermal
  protection.
- The firefighter's structural protective suit provides limited protection ONLY in fire situations; It's not effective in spills with
  possible direct contact with the substance.

## EVACUATION

### Spills

• See Table 1 – Initial Isolation Distance and Protective Action for highlighted materials. . For other materials, increase the insolation distance as necessary in relation to the wind direction, as shown in "PUBLIC SAFETY".

### Fire

If a tank, rail car, or auto-tank involved in a fire, ISOLATE 800 meters (1/2 mile) around; Consider the initial evacuation
of 800 meters (1/2 mile) all around.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please refer to the boarding documents and/or the ERAP program section (Page 392).

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# GUIDESubstances - Toxic and / or Corrosive154(NON-COMBUSTIBLE)

## EMERGENCY RESPONSE

## FUEGO

## Small Fire

• Dry chemical powders, CO2 or water spray.

## Big Fire

- Use dry chemical powder, CO2, water spray or alcohol resistant foam.
- Move fire area containers if you can do it without any risk.
- Make a containment dam for the water that controls the fire for later disposal; don't spread the material.

## Fire Involving Tanks, or Wagons, or Trailers and their Loads

- Fight the fire from a maximum distance or use fixed supports for hoses or regulating chiffons.
- Don't get water inside containers.
- Cool the containers with water jets even after the fire is extinguished.
- Stay away immediately if a growing sound is coming from the ventilation mechanism, or if the tank begins to discolor.
- ALWAYS stay away from tanks engulfed in fire.

## SPILLAGE OR LEAK

- ELIMINATE all sources of ignition (Don't smoke, don't use flares, sparks or flames in the danger area).
- Don't touch damaged containers or spilled material, unless you are wearing appropriate protective clothing.
- Stop the leak if you can do it without risk.
- Prevent entry to waterways, sewer, basements confined areas.
- Absorb with dry earth, sand or other non-combustible absorbent material and transfer it to containers.
- DON'T GET WATER INSIDE THE CONTAINERS.

## FIRST AIDS

- Make sure medical personnel are aware of the materials involved and take precautions to protect themselves.
- Move the victim to where fresh air is breathed.
- Call emergency medical services.
- Apply CPR if the victim is not breathing.
- Do not use the mouth-to-mouth breathing method if the victim ingested or inhaled the substance: Provide artificial respiration with the help of a pocket mask with a one-way valve or other medical breathing device.
- Supply oxygen if the victim has difficulty breathing.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with the substance immediately rinse the skin or eyes with running water for at least 20 minutes.
- For minor contact with the skin, avoid spreading the material on the skin that is not affected.
- Keep the victim calm and warm.
- The effects of exposure to the substance by (inhalation, ingestion or skin contact) may be delayed.

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## ANNEX 5 List of chemical agents approved for use.



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ANNEX 6 Training Plan of the Company's Personnel and Form with the detail of the previous Experience of the Personnel assigned in key positions for the management of the contingency. Annual Drills Plan according to types and objectives.

		Calendar Exercises 2018							
	VOLUME II - LIS	ST OF MARITIME PROTECTION	ON EXERCISES						
ICDC (	ISPS CODE: DRILL PBIP CODE: EXERCISE APEC MANUAL: SIMULACRO								
1343 (	ODE: DRILL	PBIP CODE: EXERCISE	APEC MANUA	L: SIMULACRO					
Exercise	Type	Topic	Date	Responsible					
		Access control							
D1-03	Personnel Controls	Illegal Entry Attempt	February 21, 2018	OPIP					
D1-04	Personnel Controls	Employee entry without identification card	February 21, 2018	OPIP					
		Adjacent Zone Protection							
D5-01	Ship / Port Interface	Maritime Protection Declaration Exchange	May 23, 2018	MANAGER					
D2-03	Vehicles and Vessels	Embankment prowling offshore at the port facility	May 23, 2018	OPIP					
		Material handling							
D3-03	Personal effects, packages and correspondence	Suspicious items in personal belongings	August 22, 2018	OPIP					
D3-04	Personal effects, packages and correspondence	Unauthorized upload / download of personal items in a restricted area	August 22, 2018	OPIP					
		Emergency Response							
D4-05	Contingencies	Bomb threat	November 21, 2018	OPIP					
D4-04	Contingencies	Power Supply Cut	November 21, 2018	OPIP					

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# ANNEX 7 Diagrams of decisions in response to spills

1			PORT DIRECTOR - MIAMI		
2	VP – Financi	e & Accounting	GENERAL MANAGER	ENVIRONMENTAL	ADVISOR
3		PFSD MANAGER	CONTROLLER	ADMINISTRATIVE ASSISTANT	
4	MAINTENANCE MANAGER	R PFSO ASSISTANT	ACCOUNTING CLERK	TAXI COORDINATOR	H&S SUPERVISOR
5	MAINTENANCE ASSISTANT	T SECURITY SUPERVISORS	AP & AR & AUDIT CLERKS	CENCOM OPERATOR	
6	MAINTENANCE SUPERVISO	R SECURITY STAFF	ACCOUNTING STAFF	ADMINISTRATIVE STAFF	
	MAINTENANCE STAFF				
		grama institucional de MAHOGANY BAY			r lo cual las decisiones
	-	Involucramiento directo en eventos de gr		-	
Nivel	2: Alta Gerencia ->	Toma de decisiones que provoquen un i	mpacto en las operaciones y estados fin	anciero de la compañía.	
		Toma de decisiones dentro de su órbita		5	
		niento -> En caso de no encontrase el ge	erente, asume la responsabilidad de la d	lecisión, siempre siguiendo los linear	nientos establecidos en
su área	a y cuidando los intereses				
	•	Supervisa el cumplimiento de las instruc		cambios al nivel superior.	
Nivel	6: Personal en general	-> Ejecuta las acciones según las instruc	ciones recibidas.		
Roatan	n Cruise Terminal S.A.				Update: October 2018

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## **ANNEX 8 Reference standards for the execution of Risk Analysis**

In addition to the regulations detailed in section 1.3., The UNE 150008 regulation is added for the development of the "Analysis and evaluation of environmental risk" that bases the actions to be described in this Plan.

UNE 150008 is a standard created by the Technical Committee for Standardization (CTN) of the Spanish Association for Standardization and Certification (AENOR), in accordance with the provisions of Regulation (EU) 1025/2012 on European Standardization.

The standard UNE 150008 of Analysis and Evaluation of Environmental Risk, establishes all the requirements and guidelines to follow when making the evaluation and quantification of all the risks generated by the activities carried out by organizations.

To carry out the determination of environmental risks, which companies can generate, different concepts are taken into account:

- The **basis of an indicator event** that involves the fact that an incident can be caused.
- The **assignment of the probability** of occurrence of said event.

The combination of the concepts detailed in the previous paragraph, are the scenarios of possible accidents, being the objective of said combination, the determination of the probability of occurrence in each of the scenarios and the determination of the natural, human and socioeconomic consequences that are derived from the succession of possible accidents.

The UNE 150008 standard is designed to be implemented in any company, regardless of the sector to which it belongs or the size it has, being the organizations that most demand this type of implementation those that by their activity, have a greater possibility of having an environmental accident

The benefits that organizations obtain after the implementation of a Management System that is based on the UNE 150008 standard are:

- Define internal functions and responsibilities in the event of an environmental accident.
- Encourage workers to be pending to improve the company's environmental management policy.
- Reduce risk premiums.
- Improve the image of the company
- Get a better deal with the administration.

## **Environmental risk**

It is obtained as a result of a function that relates the probability of occurrence of a given accident scenario and its negative consequences on the natural environment,

human and socioeconomic

## *Risk* = *f* (probability or frequency, consequence)

Usually this function takes the form of the following product:

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## *Risk* = *Probability* / *Frequency* x *Consequences*.

We want to record that UNE 150008 is integral with the environmental management systems already implemented in the company that decides to bet on complying with the requirements detailed in UNE 150008.

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## Table 1 - Natural, Human and Socioeconomic Environment Indicators

INDICATORS OF THE NATURAL ENVIRONMENT					
Abiotic environment Climatic conditions Air, water, soil					
Biotic environment	Fauna and flora Ecosystem structure				
Other Indicators	Landscape Natural Protected Areas				
HU	MAN ENVIRONMENT INDICATORS				
	Population and Public Health				
SOCIOE	CONOMIC ENVIRONMENT INDICATORS				
	Economic activities				
	Infrastructure				
	Cultural historical heritage				

## Table 2 - Probability Estimate

Value	Probability		
5	Very Probable	> once a month	
4	Highly Probable	> once a year and <once a="" month<="" td=""></once>	
3	Probable	> once every 10 years and <once a="" td="" year<=""></once>	
2	Possible	> once every 50 years and <once 10="" every="" td="" years<=""></once>	
1	Very Unlikely	<once 50="" every="" td="" years.<=""></once>	

## Table 4 - About the Natural Environment

Value	Quantity	Danger	Extension	Quality of the Medium
4	Very High	Very Dangerous	Very Extensive	Very High
3	High	Dangerous	Extensive	High
2	Little	Slightly Dangerous	Slightly Extensive	Medium
1	Very Little	Not Dangerous	Limited	Low

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## Table 5 - About the Human Environment

Value	Quantity	Danger	Extension	Affected Population
4	Very High	Death or Irreversible Effects	Very Extensive	More than 100
3	High	Serious damage	Extensive	Between 25 and 100
2	Little	Minor Damage	Slightly Extensive	Between 5 and 25
1	Very Little	Very Minor Damage	Limited	<5 people

## Table 6 - About the Socioeconomic Environment

Value	Quantity	Danger	Extension	Heritage and Productive Equity
4	Very High	Very Dangerous	Very Extensive	Very High
3	High	Dangerous	Extensive	High
2	Little	Slightly Dangerous	Slightly Extensive	Medium
1	Very Little	Not Dangerous	Limited	Low

- Aller	-	•	Spills of Fuels and tially Hazardous			
	Prepared by	Reviewed by	Approved by	Date	Review	
Mahogan Baif	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1	

## Table 7 - Severity Level

Severity level			
Critical			
Serious			
Moderate			
Mild			
Not relevant	1		

Evaluation Outcome		Action
Very high risk	21 to 25	Take immediate action
High risk	16 to 20	Take concrete action and establish a short-term execution / implementation schedule.
Medium risk	11 to 15	Take action and establish an execution / implementation schedule.
Moderate Risk	6 to 10	Evaluate case by case to determine improvement action.
Low risk	1 to 5	Keep record.

- XON	•		Spills of Fuels and ntially Hazardous Inces		
	Prepared by	Reviewed by	Approved by	Date	Review
Mahogany Baif	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

## ANNEX 9 Inspection certificates for hoses, pipes and storage tanks

Since it does not have facilities dedicated to the exploitation, sale, distribution and storage for commercial purposes, there are no certificates of hoses and pipes, instead the Certificate of Inspection of the Emergency and Contingency Plan carried out by the Fire Department is attached from Roatán.

## LOCAL STATION ROATAN, BAY ISLANDS

	CONSTANCIA	
hace constar que MAHC de Roatán. Departamen	del Heroico y Benemérito Cuerpo OGANY BAY ubicado en el sector to de Islas de La Bahía, ha realiz ias y contingencias, cumpliendo	de Dixon Cove, Municipio ado su respectiva revisión
Y para los fines que esti cuidad de Roatán, Depa junio del año dos mil die	me conveniente, se le extiende la artamento de Islas de La Bahia a eciocho.	presente constancia en la los seis días del mes de
VALIDO H	ASTA EL 31 DE DICIEMBRE DE	L AÑO 2018.
DISCIPLINA	HONOR	ABNEGACION
	CAPITAN DE BOMBEROS	an inclusion
Copia: Archivo		

X	-		pills of Fuels and ally Hazardous ces	ROATAN C TERMIN	
	Prepared by	Reviewed by	Approved by	Date	Review
Mahoganf Baif	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

# ANNEX 10 Floating barrier storage area and temporary disposal of waste generated during cleaning in case of an episode of contamination



X	•	ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
	Prepared by	Reviewed by	Approved by	Date	Review
Mahogand Bai	INTERMARIS	BOATAN CRUISE GENERAL		December-2019	1

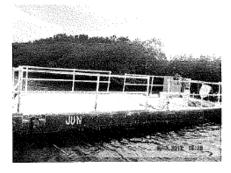
## **APPENDIX I - RECORD OF UPDATES AND REVISIONS**

UPDATES AND REVISIONS							
Nº of change	Date	Description of change	Page	Signature			

2000		ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
	Prepared by	Reviewed by	Approved by	Date	Review
Mahogant Bay	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

# APPENDIX II - Barge "MBCC 2"

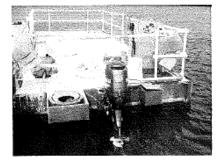
















2000		ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
	Prepared by	Reviewed by	Approved by	Date	Review
Mahoganf Baif	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

# APPENDIX III - DECK CLEAN NP Safety Data Sheet

DECK CLEAN NP UNITOR	DECK CLEAN NP
Revision: 10/27/2014	Revision: 10/27/2014 SECTION 2 Hazards identification ()
SAFETY DATA SHEET	Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous
SECTION 1 Identification of the substance/mixture and of the	substances and preparations - Symbols: GHS05
company/undertaking	- Signal Word: Danger - Skin Corr. 1B
1.1 Product identifier - Product Name: DECK CLEAN NP	- Met. Corr. 1
<ul> <li>Product Part Number: 765990 (25L)</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against</li> </ul>	22 Label elements
<ul> <li>Use of the substance/mixture:</li> </ul>	
<ul> <li>Acid Cleaner</li> <li>1.3 Details of the supplier of the safety data sheet</li> </ul>	- Signal Word: Danger
<ul> <li>Name of Supplier: Wilhelmsen Ships Service AS</li> <li>Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The</li> </ul>	- Contains:
<ul> <li>Netherlands</li> <li>Telephone: +31 4877 777 Fax: +31 4877 888</li> </ul>	<ul> <li>Methanesulphonic acid - 2-(2-Butoxyethoxy)ethanol</li> </ul>
- Head office: Wilhelmsen Ships Service AS	<ul> <li>Hazard phrases</li> <li>Causes severe skin burns and eye damage (H314).</li> </ul>
<ul> <li>Strandvelen 20, N1324 Lysaker</li> <li>Norway, Tel: (47) 6349 440 35</li> </ul>	May be corrosive to metals (H290).
- Other suppliers SEE SECTION 16!!! - For quotations contact your local Customer Services	- Descriptions Description
Responsible Person: Product HSE Manager,	<ul> <li>Precautionary Phrases</li> <li>Wear protective glowes/protective clothing/eye protection/face protection (P280).</li> <li>IS SWALL OWED: rise month, Do NOT induce upptition (P2014-P221).</li> </ul>
<ul> <li>Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com</li> </ul>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331). IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with waterishower (P303+P361+P353).
<ul> <li>Telephone: Tel.: +31 10 4877775</li> <li>Responsible Person:</li> </ul>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
1.4 Emergency telephone number - ***ONLY TO BE USED IN CASE OF AN INCIDENT****	IF exposed: Call a POISON CENTER or doctor/physician (P307+P311). 2.3 Other hazards
<ul> <li>International 24hrs Emergency NCEC: + 44 1865 407333</li> </ul>	Not a PBT according to REACH Annex XIII     Odour: Perceptible odour
<ul> <li>American Chemistry Council 24hrs +1 703 527 3887</li> <li>American 24hrs Emergency CHEMTREC (800) 424 3000</li> <li>Greece: Polsoning emergency center, +30 210 7793777</li> </ul>	Appearance: colourless     Inhalation: Vapours or aerosols may cause initiation of eyes, nose and
Greece: Poisoning emergency center, +30 210 7793777     Norway: Poison information centre, +47 22591300     Sweden: Poison information centre, +46 08 33 12 31	<ul> <li>Innaiston: Vapours or serosois may cause irritation of eyes, nose and</li> <li>Ingestion: TREARGESIGNER significant quantities may cause damage to digestive system</li> </ul>
Okacetti Policinia INRCC 24 hrs emeter, view of 512 512 512 512 512 512 512 512 512 512	SECTION 3 Composition/information on ingredients
	3.1 Mixtures
SECTION 2 Hazards identification	<ul> <li>Methanesulphonic acid</li> <li>Concentration: 10-30%</li> </ul>
2.1 Classification of the substance or mixture     Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous	CAS Number: 75-75-2 EC Number: 200-898-6
preparations. - Not hazardous according to current The Dangerous Substances Directive	R/H Phrase: R34 - H314, H290 Symbols: C, GHS05
(67/548/EEC) - Symbols: C	Categories: Skin Corr. 1B, Met. Corr. 1 REACH REG. NO: 01-21194116 6-34
- Causes burns (R34) -	- 2-(2-butoxyethoxy)ethanol
Datasheet Number 765990-r - v8.0.0 1 Prometheus version 1.4.3.0	Datasheet Number 765990-r - v8.0.0 2 Prometheus version 1.4.3.0
DECK CLEAN NP	DECK CLEAN NP
Revision: 10/27/2014 SECTION 3 Composition/information on ingredients ()	Revision: 10/27/2014
Concentration: 1-5%	SECTION 6 Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures
CAS Number: 112-34-5 EC Number: 203-961-6	Vear protective clothing as per section 8
R/H Phrases: R36 - H319 Symbols: Xi, GHS07	6.2 Environmental Precautions
Categories: Eye Irrit. 2	<ul> <li>Do not flush split material into any public water system</li> <li>6.3 Methods and material for containment and cleaning up</li> </ul>
SECTION 4 First aid measures	
	<ul> <li>Neutralise with Lime</li> <li>Neutralise with Soda ash</li> </ul>
4.1 Description of first aid measures - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse	- Neutralise with Lime - Neutralise with Soda ash - Absorb spillage in earth or sand - Ventilate the area and wash spill site after material pick-up is complete
<ul> <li>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).</li> <li>Seek medical advice if necessary</li> </ul>	<ul> <li>Neutralise with Lime</li> <li>Neutralise with Soda ash</li> <li>Absorb spillage in earth or sand</li> </ul>
<ul> <li>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).</li> <li>Seek medical advice if necessary</li> <li>Wash contaminated dothing before reuse (P383).</li> </ul>	Neutralise with Lime     Neutralise with Soda ash     Astrono spillage in earth or sand     Astrono spillage in earth or sand     Ventilate the area and wash spill site after material pick-up is complete 6.4 Reference to other sections
<ul> <li>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).</li> <li>Seek medical advice if necessary Wash contaminated clothing before reuse (P303).</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).</li> </ul>	Neutralise with Lime     Neutralise with Soda ash     Absorb spillage in earth or sand     Ventiate the area and wash spill site after material pick-up is complete     6.4 Reference to other sections     Sec Section 13  SECCTION 7 Handling and storage  7.1 Preoautions for safe handling
IF ON SKIN (or hair): RemovePlate off immediately all contaminated clothing. Rinse skin with waterholwer (19234-P634-19735);     Seek medical advice if necessary      Wash contaminated dothing before reuse (P363).     IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,      If present and easy to do. Continue rinsing (P305+P351+P338).     Irigate eyes shorosofthy whilst lifting eyelds     Seek immediate medical attention	- Neutralise with Lime     - Neutralise with Soda ash     - Absorb spillage in e arth or sand     - Ventilate the area and wash spill site after material pick-up is complete     6.4 Reference to other sections     - See Section 13     SECTION 7 Handling and storage 7.1 Precautions for safe handling     - Ensure adequate ventilation     - Wear protective clothing as per section 8
IF ON SKIN (or hair): RemovePlate off immediately all contaminated clothing. Rinse skin with waterholware (19233-1963);     Seek medical advice if necessary (19235-1963);     Wash contaminated clothing before reuse (1936).     IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (19205+1931);     Imgate eyes horoughly whilst lifting eyelds.     Seek immediate medical attention     IF SWALLOWED: rinse mouth. Do NOT induce vomiting (19301+1930+1931).     Give plenty of water to drink	Neutralise with Lime     Neutralise with Lime     Neutralise with Soda ash     Absorb spillage in earth or sand     Verblate the area and wash spill site after material pick-up is complete     6.4 Reference to other sections     See Section 13      EccTION 7 Handling and storage      1.1 Precautions for safe handling     Ensure adequate ventilation     Wear protective clothing as per section 8     Do not get in eyes, on skin, or on clothing (7262).     22 Conditions for safe shore, including any incomparabilities
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin vitw atterinhower (1923+7961+7953);     Seek medical advice if necessary      Wash contaminated clothing before reuse (P363).     IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,      If present and easy to do. Continue rinsing (P305+P351+P338),     Imgate eyes horouphly whild lifting eyellos     Geek immediate medical attention     If SIN4LLOWED; intee mouth. Do NOT induce vomiting (P301+P331).	Neutralise with Lime     Neutralise with Soda ash     Absorb spillage in earth or sand     Ventilate the area and wash spill site after material pick-up is complete     6.4 Reference to other sections     See Section 13      EccTUON 7 Handling and storage  7.1 Precautions for safe handling     Ensure adequate ventilation     Wear protective clothing as per section 8     Do not get in eyes, on skin, or on clothing (P262). 7.2 Conditions for safe shore, including any incompabilities     Keep in add store     Protect from fost
FON SKIN (or har): Remove/Take of immediately all contaminated clothing. Rinse skin virw taterkhower (P303+P361+P353).     Seek medical advice if neoessary     Wash contaminated clothing before reuse (P363).     FINE VES: Ronse cauliculy with vater for several minutes. Remove contact lenses, if INE VES: Ronse cauliculy with vater for several minutes. Remove contact lenses, if insect and easy to do. Continua instraing (P305+P351+P338).     Impate eyes horoughty while itting eyelids     Seek immediate medical attention     FINE VES: Row and the medical attention     FINE VES: Row and the medical attention     Seek immediate medical attention	Neutralise with Lime     Neutralise with Lime     Neutralise with Soda ash     Absorb spillage in earth or sand     Ventilise the area and wash spill site after material pick-up is complete     6.4 Reference to other sections     See Section 13     SecTiON 7 Handling and storage     T.1 Precautions for safe handling     Ensure adequate ventilation     Wear protective clothing (P262).     T.2 Conditions for safe handling     Section for safe bandling any incompatibilities     Keep in add store     Protection for safe handling     Keep only in original container (P234).     Keep only in original container (P234).     Keep only in original container (P234).     Keep only from swillpith (P235+P410).
FON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin vitw atterholwore (1923) + 7951 + 19553).     Seek medical advice if necessary      Wash contaminated clothing before reuse (1936).     IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,      If present and easy to do. Continue rinsing (19305+1951+1933).     Seek immediate medical attention     Seek immediate medical attention     Fir SWALLOWED: runse mouth. Do NOT induce vomiting (19301+1933)+1933).     Give pienty of water to drink     Never make an unconcious person vomit or drink fluids     Seek immediate medical attention     IF INALLED! If therating is difficult, remove vicitin to fresh air and keep at rest in a position comfortable for breathing (19301+1930).     Vaporus or aerosola may cause irritation of eyes, nose and respiratory tract	Neutralise with Lime     Neutralise with Lime     Neutralise with Soda ash     Absorb spillage in earth or sand     Ventilate the area and wash spill is the after material pick-up is complete     6.4 Reference to other sections     See Section 13      EccTUON 7 Handling and storage      1.1 Precoutions for safe handling     Ensure adequate ventilation     Wear protective clohing as per section 8     Do not get in eyes, on skin, or on clohing (P262),     22 Conditions for safe shore, including any incompatibilities     Keep in add store     Protection froat     Keep only in original container (P234),     Keep ool, Protect from sunlight (P235+P410),     Keep in a col, dry, well ventilated place     7.3 Specifice and use(5)
FON SKIN (or har): Remove/Take off immediately all contaminated clothing. Rinse skin vitw atterholvew (P303+P361+P353).     Seek medical advice if necessary     Wash contaminated clothing before reuse (P363).     FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, the several minutes is the several minutes. Remove contact lenses, the several minutes is the several minutes. Remove contact lenses, the several minutes is the several minutes. Remove contact lenses, the several minutes is the several minutes. Remove contact lenses, the several minutes is the several minutes. Remove contact lenses, the several minutes is the several minutes. Remove contact lenses, the several mediate medical attention.     FISWALLOWED: insee mouth: Do NOT induce vomiting (P301+P330+P331).     Give plenty of water to drink.     Never make an unconcicus person vomt or drink fluids     Seek immediate medical attention     FIFINALLED! If breating is difficult, remove vicitin to thesh air and keep at rest in a position comfortable for breathing (P304+P341).     Vapours or aerosolit and an offerts, both caute and delayed	Neutralies with Lime     Neutralies with Lime     Neutralies with Soda ash     Absorb spillage in earth or sand     Ventilate the area and wash spill site after material pick-up is complete     SAReference to other sections     Section 13  SECTION 7 Handling and storage  7.1 Precautions for safe handling     Ensure adequate ventilation     Near protective clothing as per section 8     So do get in eyes, on skin, or on clothing (P262).  72 Conditions for safe storage, including any incompatbilities     Near protective clothing as per section 8     Near protective clothing and per section 8     So do get in eyes, on skin, or on clothing (P262).  72 Conditions for safe storage, including any incompatbilities     Near point on tost     Keep pool, Protect from surging) (P254)-P10).     Keep pool, Protect from surging locations 7.3 Specific and use(s)     Contact supplier for further information
IF ON SKIN (or hair): Remover/Take off immediately all contaminated clothing. Rinse skin with waterkinkower (19234-7934): 147535).     Seek medical advice if necessary     Wash contaminated dothing before reuse (19363).     IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, <b>F</b> present and easy to do. Continue rinsing (19205+1951+1938).     Irigate eyes shoroughly whils iffing eyelids     Seek immediate medical attention     IF SNLLDWED. These mouth: Do NO T induce vomiting (P301+P330+P331).     Give pleng/ of valar to sink:     New make an unconscious person yomit or drink fluids     Seek immediate medical attention     IF INHALEDI (19 threathing is difficult, remove victim to fesh air and keep at rest in a position comfordable for treating (19304-1941).     Vapours or aerosits may cause irritation of eyes, nose and respiratory tract     Seek medical if infinition of infinition of instation presists	Australies with Lime     Neutralies with Lime     Austor's pillage in earth or sand     Absorb spillage     Absorb spillage in earth or sand     Absorb spillage     Abso
FON SKIN (or hair): Remover/Take off immediately all contaminated clothing. Rinse skin vitw atterinhower (P303+P361+P353).     Seek medical advice if necessary      Wash contaminated clothing before reuse (P363).     If IN EYES: Rinse cautiously with water for several minutes. Remove contad lenses,      If present and easy to do. Continue rinsing (P305+P361+P338).     Ingate eyes broughly while titing velicis     Gesk immediate medical attention (P305+P361+P338).     If give eyes broughly while titing velicis     Gesk immediate medical attention     If SVALLOW/ED: inse mouth. Do NOT induce vomiting (P301+P330+P331).     Give plenty of water to drink     Never make an unconciculus person vomit or drink fluids     Seek immediate medical attention     If INALED If theating is difficult remove vicitin to fesh air and keep at rest in a position comfortable for threathing (P304+P341).     Vapours or aerools may cause imitation of eyes, nose and respiratory tract     Seek medical attention if imitation persists     42 Most important symptoms and effects, both bacute and delayed     Vapours or aerools may cause imitation of eyes, nose and respiratory tract     Problemed skin or eye contact may cause chemical burns	Neutralies with Lime     Neutralies with Lime     Neutralies with Soda ash     Absorb spillage in earth or sand     Absorb spillage in earth or sand     Soft sectors     S
FON SKIN (or har): Remover Take of immediately all contaminated clothing. Pinse skin vitw atterihower (1923) + 793 + 19553).     Seek medical advice if necessary (1934) + 793 + 19553).     Jesk medical advice if necessary (1936) + 700	Neutralies with Lime     Neutralies with Lime     Neutralies with Soda ash     Absorb spillage in earth or sand     Absorb spillage in earth or sand     Soda wash spill site safer material pick-up is complete     Afference to other sections     Sode Section 13     Sode Section 14
	Neutralies with Lime     Neutralies with Lime     Neutralies with Soda ash     Absorb spillage in earth or sand     Absorb spillage in earth or sand     Neutralies with Soda ash     Sode section 13     Sode section 14
FON SKIN (or har): Removed Take of immediately all contaminated clothing. Pinse skin view taterinhower (1923) + 795 (1+7953);     Seek medical advice if neossary (1923) + 795 (1+7953);     Just contaminated clothing before reuse (1936);     Finxes cautiously with vater for several minutes. Remove contact lenses, if yinse reuse that lensing (1930) + 795 (1+7936);     Finxes that desay to do. Continue intering (1970) + 7936); + 7936; + 793	Neutralies with Lime     Neutralies with Lime     Neutralies with Soda ash     Absorb spillage in earth or sand     Versitise the area and wash spill site after material pick-up is complete     Afference to other sections     Second 13      Second 13      Second 13      Control or safe handling     Neural edequate ventilation     Near protective clothing as per section 13      Control for safe handling     Neural edequate ventilation     Near protective clothing (P282),     Conditions for safe handling     Neural edequate ventilation     Near protective clothing (P282),     Conditions for safe storage, including any incompatibilities     Near protective clothing (P234),     Near protective clothing (P234),     Near pool, Protect from suilipti (P235-P410),     Near pool, Protect fr
FON SKIN (or har): Remover/Lake of immediately all contaminated clothing. Rinse skin view teaterhower (19239-P361+P353);     Seek medical advice if necessary (19239-P361+P353);     Fill EYES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinsing (P3054-P361+P338);     Ingate yers broughly whild lifting velicis     Seek immediate medical attention     Seek immediate medical attention     Seek immediate medical attention     Fill SYLES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinsing (P3054-P361+P338);     Ingate yers broughly whild lifting velicis     Seek immediate medical attention     Fill SYLES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinsing (P3054-P341);     Give plenty of water to drink     Seek immediate medical attention     Fill SYLES: Rinse cautiously and the contained respiratory tract     Seek immediate medical attention     Fill SYLES: Rinse canter the result of eyes, nose and respiratory tract     Seek medical attention of eyes, nose and respiratory tract     Seek medical attention of eyes, nose and respiratory tract     Paologia kin or eye contad may cause immation of eyes, nose and respiratory tract     Prolong divin or eyes contad may cause demical burns     The ingestion of significant quantiles may cause damage to digetive system     4.3 Indication of any immediate medical attention at special itreatment needed     SECTION 5 Fine-fighting measures     S1 Extinguishing media     Not fammable. In case of fire use extinguishing media appropriate to surrounding conditions     Seekia haards anting thom the substance or mixture     Sections to form the substance or mixture     Sections to more than the solutions to protect personnel from exposure	Neutralies with Line     Neutralies with Line     Neutralies with Soda ah     Absorb spillage in earth or sand     Absorb spillage in earth or sand     Neutralies with Soda ah     Soda wash spills its its after material pick-up is complete     Soda section 13     Soda section 14     Soda sectin 14     Soda sectin 14     Soda section 14     Soda section 14
FON SKIN (or har): Removal Take of immediately all contaminated clothing. Rinse skin vive waterinhower (19239-P361+P353).     Seek medical advice if necessary (19239-P361+P353).     Fin EVES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinsing (P3054-P361+P338).     Ingate eyes horoughly while lifting velicis     Geek immediate medical attention     Seek immediate medical attention (19205+P361+P338).     Geek immediate medical attention     Seek immediate medical attention     Fis/SWALCOWED: intee mostling (P3054-P361+P338).     Give plenty of water to drink     Seek immediate medical attention     Fis/SWALCOWED: intee mostling to DN 01 induce vomiting (P301+P330+P331).     Seek immediate medical attention     Fis/SWALCOWED: intee mostling is difficult, remove victim to fesh air and keep at rest in a position     ormforable for knowing is difficult remove victim to fesh air and keep at rest in a position     wours or aerosolis may cause irititation of eyes, nose and respiratory tract     Seek medical attention in irritation of eyes, nose and respiratory tract     Pacing attention and effects, both burns     The ingestion of significant quantities may cause damage to digeade     Vapours or aerosolis may cause irritation of eyes, nose and respiratory tract     Prolong at kin or aye contact may cause chemical burns     The ingestion of significant quantities may cause damage to digeative system     4.3 Indication of any immediate medical attention and special irreatment needed     SECTION 5 Fine-fighting measures     S1 Extinguishing media     Not fammable. In case of fire use extinguishing media appropriate to surrounding conditions     Sonke form fires is corrosive. Take precautions to protect personnel from exposure     Smoke form fires is corrosive. Take precautions to protect personnel from exposure	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>
<sup>IF</sup> ON SKIN (or har): Removal Take off immediately all contaminated clothing. Rinse skin vin waterinhower (19239-P361+P353); Seek medical advice if neoessary Wash contaminated clothing before reuse (P363); If IN EYES: Rinse cautiously with water for several minutes. Remove contad lenses, f present and easy to do. Continue rinsing (P3054-P351+P338); Ingate yers broughly whild lifting velicis Seek immediate medical attention File NYES: Rinse cautiously with water for several minutes. Remove contad lenses, f present and easy to do. Continue rinsing (P3054-P351+P338); Ingate yers broughly whild lifting velicis Seek immediate medical attention File SVALLOWED: inse mouth. Do NO T induce vomiting (P301+P330+P331); Seek immediate medical attention File NALLOWED: insertional to B NO T induce vomiting the shart and keep at rest in a position omforable be transiting is difficult remove victim to fesh air and keep at rest in a position omforable be transiting in difficult remove victim to fesh air and keep at rest in a position omforable be transiting in difficult remove victim to fesh air and keep at rest in a position omforable be transiting a difficult remove victim to fesh air and keep at rest in a position omforable be transiting a difficult remove victim to fesh air and keep at rest in a position wapours or aeroolin may cause irritation of eyes, nose and respiratory tract Poologi akin or eye contad may cause chemical burns The ingestion of significant quantities may cause damage to digetive system As Indication of any immediate medical attention and special irreatment needed Sections 5 Fine-fighting measures Si Extinguishing media - Nort fammable. In case of fire use extinguishing media appropriate to surrounding conditions Sincke form frees is corros	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>
- I <sup>C</sup> ON SKN (or har): Remove/Take of Immediately all contaminated clothing. Rinse skin vive watershower (1923) + 2951 + 1955(3).     - Seek medical advice if necessary (1923) + 2951 + 1955(3).     - If IN EYES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinsing (1920+P351)+P338).     - Seek immediate medical attention (1920+P351)+P339).     - Seek immediate medical attention     - FIN EYES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinsing (1920+P351)+P338).     - Seek immediate medical attention     - FIN SVALLOWED: rinse mouth. Do NOT induce vomiting (19201+P330+P331).     - Give plenty of water to drink     - Never make an unconcious person vomit or drink fluids     - Seek immediate medical attention     - FINALLED: If the stating is difficult remove victim to fresh air and keep at rest in a position comforable for breating (1920+P341).     - Vapours or earools may cause irritation of eyes, nose and respiratory tract     - Seek medical attention if irritation parists     4.2 Most important symptoms and effects, both socius and delayed     - Vapours or earools may cause irritation of eyes, nose and respiratory tract     - Prolonged skin or eye contact may cause chemical burns     - The ingestion of significant quantilies may cause damage to digetitle system     4.3 Indication of any immediate medical attention and special treatment needed     SECTION 5 Fire-fighting measures     S1 Extinguish ing media     - Not flammable. In case of fire use extinguish ing media appropriate to surrounding conditions     Socke from free is corrosive. Take precautions to protect personnel from exposure     - Snoke from free is corrosive. Take precautions to protect personnel from exposure     - Snoke from free is corrosive. Take precautions to protect personnel from exposure     - Snoke from free is toxic. Take precautions to protect personnel from exposure     - Snoke from free is corrosive.	<ul> <li>Neutralies with Lines</li> <li>Neutralies with Lines</li> <li>Aboots spillage in earth or sand</li> <li>A</li></ul>
	<ul> <li>Neutralies with Lime</li> <li>Neutralies with Soda asia</li> <li>Absorb spillage in earth or sand</li> <li>Absorb spillage in earth earth earth or sand</li> <li>Absorb spillage in earth ear</li></ul>
- I <sup>II</sup> ON SKIN (or hair): Removed Take off immediably all contaminated clothing. Rinse skin witw tetrihower (1923) 47961 (19553).     - Seek medical advice if necessary     - Wash contaminated clothing before reuse (1936).     - IF IN EYES: Rinse cautiously with water for several minutes. Remove contad lenses, if present and easy to do. Continue rinning (19205+1951).     - Right myeliotecouply attention of the several minutes. Remove contad lenses, if present and easy to do. Continue rinning (19205+1951).     - Right myeliotecouply attention     - Ring Mathematical Attent	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>
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# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

## **ROATAN CRUISE** TERMINAL

Prepared by	Reviewed by	Approved by	Date	Review
INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

## Cont. APPENDIX III - DECK CLEAN NP Safety Sheet

DECK CLEAN NP Bevision: 10/27/2014	DECK CLEAN NP
	Revision: 10/2//2014
SECTION 9 Physical and chemical properties ()	SECTION 12 Ecological information ()
- Appearance: colourless	<ul> <li>Its main ingredients will either dissolve rapidly and dissociate in water or are</li> </ul>
<ul> <li>pH 1.5 - 2.5 at 1 % concentration</li> </ul>	readily/inherently biodegradable. 12.3 Bioaccumulation Potential
<ul> <li>Boiling point &gt;100 °C</li> <li>Completely soluble in water</li> </ul>	
<ul> <li>Density 1,1 - 1,11 kg/m3 at 20 °C</li> </ul>	<ul> <li>Bioaccumulation of the components in this product is insignificant.</li> <li>12.4 Mobility in soil</li> </ul>
9.2 Other information	<ul> <li>Completely soluble in water</li> </ul>
- None	12.5 Results of PBT and vPvB assessment
SECTION 10 Stability and reactivity	<ul> <li>Not a PBT according to REACH Annex XIII</li> </ul>
	12.6 Other Adverse Effects
10.1 Reactivity	- No information available
<ul> <li>This article is considered stable under normal conditions</li> <li>10.2 Chemical stability</li> </ul>	SECTION 13 Disposal considerations
This article is considered stable under normal conditions	13.1 Waste treatment methods
10.3 Possibility of hazardous reactions	<ul> <li>Do not discharge into drains or the environment, dispose to an authorised waste</li> </ul>
<ul> <li>No hazardous reactions known if used for its intended purpose</li> </ul>	collection point
10.4 Conditions to avoid	<ul> <li>Disposal should be in accordance with local, state or national legislation</li> </ul>
<ul> <li>Avoid overheating</li> <li>10.5 Incompatible materials</li> </ul>	13.2 Classification
Avoid contact with metals	SECTION 14 Transport information
<ul> <li>Contact with metals may form explosive gases</li> </ul>	
<ul> <li>Incompatible with alkalis (strong bases)</li> </ul>	
10.6 Hazardous Decomposition Products	
<ul> <li>No hazardous decomposition products known</li> </ul>	- 14.1 UN
SECTION 11 Toxicological information	- UN No.: UN 3265
11.1 Information on toxicological effects	<ul> <li>Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.</li> </ul>
- No experimental data available	(Methanesulphonic acid solution)
11.2 Contact with eyes	- Hazard Class: 8
- Can cause damage to the eyes	Packing Group: III     14.2 Environmental hazards
<ul> <li>Prolonged skin or eye contact may cause chemical burns</li> </ul>	Presents no hazard to the environment
11.3 Contact with skin - Can cause damage to the skin	14.3 Special precautions for user
<ul> <li>Can cause d'amage to the skin</li> <li>Prolonged skin or eye contact may cause chemical burns</li> </ul>	<ul> <li>No special precautions are required for this product</li> </ul>
11.4 Ingestion	14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
<ul> <li>Not regarded as a potential route of exposure.</li> <li>The insertion of significant quantities may equipe demands to process to process.</li> </ul>	- Not applicable
<ul> <li>The ingestion of significant quantities may cause damage to mucous membranes 11.5 Inhalation</li> </ul>	14.5 Road/Rai (ADR/RID)
<ul> <li>In cases of severe exposure, irritation may develop</li> </ul>	ADR UN No.: UN3265     Droper Shinning Name: Corrective liquid acidic organic, p.o.s.
	<ul> <li>Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)</li> </ul>
SECTION 12 Ecological information	<ul> <li>ADR Hazard Class: 8</li> </ul>
12.1 Toxicity	<ul> <li>ADR Packing Group: III</li> </ul>
- LC50 (fish) (2-(2-butoksyetoksyetanol)) 2 500 mg/l (96 hr)	<ul> <li>ADR subrisk: N/A</li> <li>ADR Flashpoint: N/A</li> </ul>
<ul> <li>EC50 (daphnia) 2-(2-butok system ksystem of loss and loss and</li></ul>	14.6 Sea (IMDG)
<ul> <li>Biodegradability. OECD-test. &gt; 70% OECD 302B, CAS: 112-43-5</li> <li>LC50 (fish) (Methane Sulphonic acid) 73 mg/l (96 hr)</li> </ul>	- IMDG UN No.: UN3265
<ul> <li>Biodegradability. OECD-test. 28 days &gt;60 % (Methane Sulphonic acid)</li> </ul>	
12.2 Persistence and degradability	
Datasheet Number 765990-r - v8.0.0	5 Datasheet Number 765990-r - v8.0.0 6
Prometheus version 1.4.3.0	Prometheus version 1.4.3.0
DECK CLEAN NP	DECK CLEAN NP
Revision: 10/2//2014	Revision: 10/27/2014
DECK CLEAN NP Revision: 10/27/2014 SECTION 14 Transport information ()	DECK CLEAN NP Revision: 10/27/2014 SECTION 16 Other information ()
SECTION 14 Transport information () Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.	Revision: 10/27/2014 SECTION 16 Other information () serious eye linitation. R34: Causes burns. R36: Initiating to eyes.
SECTION 14 Transport information () - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)	Revision: 1027/2014 SECTION 16 Other information () serious eye irritation. R34: Causes burns. R36: Initating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from
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EVEND: 1/2/2014     Feventian ()      Froper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.     (Methanesulphonic add solution)      IMDG Hazard Class: 8      IMDG Pack Group: III      IMDG EmS: F-A, S-B      IMDG Subhis: N/A	Revision: 10/27/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R38: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from - knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risk and mentioned in this sheet. Do not use for other application(s) without desking advice form manufacture:
SECTION 14 Transport information ()  Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)  IMDG Hazard Class: 8  IMDG Pack Group: III IMDG Ediss, S-B IMDG Substix, NIA IMDG Flashpoint: NIA	Revision: 1027/2014 SECTION 16 Other information () Sector and the information of the information provided about the product on this Safety Data Sheet has been compiled from Information provided about the product on this Safety Data Sheet has been compiled from Information provided about the product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications (s) without seeking advice from manufacturer The data given here is based on current knowledge and experience. This Safety Data Sheet
SECTION 14 Transport information ()  Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic add solution)  IMDG Pack Group: III IMDG pack Group: III IMDG subrisk: N/A IMDG Subris	Revision: 10/27/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R38: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from - knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risk and mentioned in this sheet. Do not use for other application(s) without desking advice form manufacture:
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SECTION 14         Transport information         Transport information           -         Proper Shipping Name: Corrosive liquid, acidic, organ £, n.o.s.         (Mithanesulphonic acid solution)           -         IMDG Hazard Class: 8         -         IMDG Pack Group:: III           -         IMDG Bazard Class: 8         -         IMDG Pack Group:: III           -         IMDG Bass, NA         -         IMDG Bass, S-B           -         IMDG Flashpoint N/A         -         IMDG Flashpoint N/A           14.7 Art (ICAC/IATA)         -         ICAC UIN No:: UN3265         -           -         Proper Shipping Name: Corrosive liquid, acidic, organd, n.o.s.         (Methanesulphonic acid solution)	Revision: 1027/2014 SECTION 16 Other information () serious eye irritation. R34: Causes burns. R36: Irritating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for ofher applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experiment. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product properties. The most up-to-date version of this MSDS can be found on www withelmsen.com/shipsservice
SECTION 14 Transport information ()  Proper Shipping Name: Corrosive liquid, acidic, organic, n. o.s. (Methanesulphonic acid solution)  MDG Hazard Class: 8  MDG Pack Group:: II  MDG Classhoott N/A  MDG Stashpoint N/A  MDG Stashpoint N/A  14.7 Air (ICAO/IATA)  ICAO UN No: UN3265 Proper Shipping Name: Corrosive liquid, acidic, organic, n. o.s. (Methanesulphonic acid solution) ICAO Hazard Class: 8	Revision: 10/27/2014 SECTION 16 Other information () serious eye imitation. R34: Causes burns. R35: Irritating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from + knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as subtle for other applications - usage in such may cause risks not mentioned in this abeet. Do not use for other application(s) without seeking advice from manufacturer The data given here in based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreperties. The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipssen/oe OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES
Intervision: 102/2014           SECTION 14         Transport information (,)           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Subrisk: N/A           -         IMDG Subrisk: N/A           -         IMDG Subrisk: N/A           -         ICAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Hazard Class: 8           -         ICAO Packing Group: III	Revision: 10/27/2014 SECTION 16 Other Information () serious eye irritation. R34: Causes brums. R35: Irritating to eyes. The Information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications or usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product is properties. The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssen/ce OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withelmeen Ships Service Level 17, 639 St Kidia Road Melbourne Vic 3004 AUSTRALIA
SECTION 14 Transport information ()  Proper Shipping Name: Corrosive liquid, acidic, organic, n. o.s. (Methanesulphonic acid solution)  MDG Hazard Class: 8  MDG Pack Group: II  MDG Class, S. B  MDG Submits: NA  MDG Slashpoint N/A  14.7 Air (ICAO/IATA)  Class IIII (ICAO/IATA)  Class IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Revision: 10.027/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R36: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks ont mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product in terms of safety requirements and does not signify any warranty with regard to the product in NFORMATION MAJOR CHEMICAL OFFICES While mean Ships Sancia Lewel 17, 303 S Kids Road Melbourne Vic 3004 AUSTRALIA Tei: +613 0630 0000 Emergency 24xx = r61 3 0630 0006 While risks Ships Sence Lewel 210 Edgestware Street US-10305 Staten Island New York United
Intervision: 102/2014           SECTION 14         Transport information (,)           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Subrisk: N/A           -         IMDG Subrisk: N/A           -         IMDG Subrisk: N/A           -         ICAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Hazard Class: 8           -         ICAO Packing Group: III	Revision: 10/27/2014  SECTION 16 Other information () serious eye imitation. R34: Causes burns. R35: initiating to eyes. The information provided about the product not his Safety Data Sheet has been compiled from     knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not     sold as subled for other application(s) without seeking advice from manufacture: The data given here is based on current knowledge and experience. This Safety Data Sheet     describes the product in terms of safety regularements and does not slightly any warrantly with     regard to the product spropertage     The most up-to data version of this MSDS can be found on www.wilkelmsen.com/shipsservice     OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES     Wilkenmen Ships Service Livel 17, 635 St Kids Road Maebourne Vic 3004 AUSTRALIA     Tet - 613 a950 30000 Emergency 24/trs - 613 a950 3000     Wilkenmen Ships Service INC2 102 Eggewater Street US-10305 Staten Island New York United     States Telephone daytine; (1) 718 B15 1310 Tata; (1) 718 203 2068
Intervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Pack Group: III           -         IMDG Back Group: III           -         IMDG Subtrisk: N/A           -         IMDG Subtrisk: N/A           -         IMDG Subtrisk: N/A           -         IMDG Flashpoint: N/A           14.7 Air (ICAO/IATA)           -         ICAO UN to: UN3265           -         Proper Shipping Name: Corrosive liquid, acidis, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Packing Group: III           -         ICAO Packing Group: III           -         ICAO Packing Group: III           -         ICAO Flashpoint: N/A	Revision: 10/27/2014 SECTION 16 Other information () serious eye imitation. R34: Causes burns. R32: initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from I howledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not soid as subled for other application(s) without seeking advice from manufacturer The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product is terms of safety requirements and does not lightly any warranty with regard to the product is properties. The most up-to date version of this MSDS can be found on www.withelmsen.com/shipssenice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermean Ships Service I-keel 17, 693 SI Kids Road Melbourne Vo. 3004 AUSTRALIA Tati-e13 a090000 Emerginery 24hrer. efit 9 890 0098 Withermean Ships Service INC 210 Edgewater Street US-10305 Shaten Island New York United States Telephone daytime: (17) 718 B15 1310 Fact (17) 718 23 3088 Withermean Ships Service INC 2200 W, Pacific Coast Highway US-08010 Long Beach California, United States Telephone 14(-1) 562 426 421011
SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Mithanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Hazard Class: 8           -         IMDG Hazard Class: 8           -         IMDG Bash (Group: III           -         IMDG Subrisk: NIA           -         IMDG OL UN No:: UN3225           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         ICAO Hazard Class: 8           -         ICAO Packing Group: III           -         ICAO Subrisk: NIA           -         IcAO Flashpoint: NIA           -         IcAO	Revision: 10/27/2014 SECTION 16 Other information () serious eye imitation. R34: Causes burns. R32: intrating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from I howledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other application(s) without seeking advice from manufacturer. The data given here in based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product is properties. The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssen/cee OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withelmsen Ships Service IV210 Eggewater Street US-100004 AUSTRALIA Tel: +613 8600 0000 Emergency 24/nrc +613 8630 0098 Withelmsen Ships Service IV2102 W Padric Coast Highway US-80810 Long Beach California, United States Tel (+1),626 224 8888 Fax (+1) 562 624 1011 Withelmsen Ships Service IV0710 Alignments.
Intervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Subrisk: NIA           -         IMDG Stashapoint: NIA           14.7 Air (ICAO/ATA)         -           -         ICAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Pasard Class: 8           -         ICAO Pasard Class: 8           -         ICAO Pastopoint: NIA	Revision: 10/27/2014 SECTION 16 Other information () serious eye imitation. R34: Causes burns. R35: intrating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from I knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as subtle for other application(s) without seeking advoce from manufacturer The data given here individual concurrent knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreperties. The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipssen/coe OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withelmmen Ships Service I KV 210 Edgewater Street US-10305 Staten Island New York United States Telephone daytime (*1) 718 B1 51301 e300.0988 Withelmmen Ships Service I KV 2010 K), Parcite Coast Highing IVG-2010 Long Beach California, Withelmsen Ships Service I KV 2010 K), Parcite Coast Highing IVG-2010 Long Beach California, Withelmsen Ships Service I KV 2010 K), Parcite Coast Highing IVG-2010 Long Beach California, Withelmsen Ships Service I KV 2010 K), Parcite Coast Highing IVG-2010 Long Beach California, Withelmsen Ships Service I KV 2010 K), Parcite Coast Highing IVG-2010 Long Beach California, Withelmsen Ships Service I KV 2010 K), Parcite Coast Highing IVG-2010 Long Beach California, Withelmsen Ships Service I KV 2011 Abiland Awa Ashiband Center Two, Bay 12 US-10032 Folcont Pennsylvania United States Til (*1) fol 588 701 Faix (*1) 718 2570 Faasdena Texas United States Vithelmsen Ships Service I KV 2010 Abiland Awa Ashiband Center Two, Bay 12 US-10032 Folcont Pennsylvania United States Til (*1) 610 588 701 Faix (*1) 217 570 10464
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organ.c, n.o.s. (Mithanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Flashpoint: N/A           -         IMDG Subrisk: N/A           -         IMDG Sizer (Crosive liquid, acidic, organ.c, n.o.s. (Methanesulphonic acid solution)           -         IAOQ UN No:: UN3225           -         Proper Shipping Name: Corrosive liquid, acidic, organ.c, n.o.s. (Methanesulphonic acid solution)           -         IGAO Subrisi:: N/A           14.8 D01 / CR (US Department of Transportation)           -         Identification Number: UN3265           -         DOT Labels:	Revision: 1027/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R36: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks ont mentioned in this sheet. Do not use for other applications - usage in such may cause risks ont mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product "s properties. The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Witherinesn Ships Sance IN 2010 Edgewards Street US-10305 Staten Island New York United States Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3288 Witherinesn Ships Sance IN 2010 Adjaments Occus Highward US-0006 Bwitherinesn Thip Says 2010 F101 Adjament Cosast Highward US-000 Long Beach California, United States Tel (+1) 626 224 8888 Frax (+1) 626 224 1011 Witherinesn Ships Sance IN C101 Adjament Ave. Adjamed Center Two, Bay 12 US-19032 Folcroft Witherinesn Ships Sance IN C2010 UP Appress VIC 1012 VIC 78207 Vasadena Texas United States Telephone daytime: (+1) 2816 7200 Fax: (+1) 2816 7200 Fax: (+1) 2816 7200 Fax: (+1) 2816 7200 Fax: (+1) 718 233 2388 Witherinesn Ships Sance IN C101 Adjame Ave. Adjamed Center Two, Bay 12 US-19032 Folcroft Witherinesn Ships Sance IN C101 Adjamed Kosast Highward Center Two, Bay 12 US-19032 Folcroft Witherinesn Ships Sance IN C101 Adjamed Fax: (+1) 2816 7200 Fax: (+1) 782 77807 Pasadena Texas United States Telephone daytime: (+1) 7816 7200 Fax: (+1) 77807 Pasadena Tex
Intervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Subrisk: NIA           -         IMDG Stashapoint: NIA           14.7 Air (ICAO/ATA)         -           -         ICAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Pasard Class: 8           -         ICAO Pasard Class: 8           -         ICAO Pastopoint: NIA	Revision: 1027/2014 SECTION 16 Other Information () serious eye inftation. R34: Causes burns. R36: Inftating to eyes. The Information provided about the product on this Safety Data Sheet has been compiled from knowledge of the Individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product "s progreties. The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withelmsen Ships Service Level 17, 638 St Kida Road Melbourne Vic 3004 AUSTRALIA Tet + 613 8630 0000 Emergency 24/rsr + 613 8630 0098 States Telephone daytime. (+1) 718 L51 5110 Fax. (+1) 718 233 3368 Vithelmsen Ships Service Level 17, 1610 568 7801 Fax (+1) 215 701 0486 Withelmsen Ships Service Lovel 701 Ashiband Ave. Ashland Center Two, Bay 12 US-19032 Foloroft Pennsylvania United States Tel (+1) 1610 568 7801 Fax (+1) 215 701 0466 Withelmsen Ships Service Level 12 fol 10586 7801 Fax (+1) 215 701 0466 Withelmsen Ships Service Level 12 Fax (+1) 218 057 2800
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group:: II           -         MDG Subrisk: NA           -         IMDG Sishpoint: N/A           -         ICAO IN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Hazard Class: 8           -         ICAO Hazard Class: 8           -         ICAO Hazard Class: 8           -         ICAO Pashing Group: III           -         ICAO Pashpoint: N/A	Revision: 10/27/2014 SECTION 16 Other information () serious eye imitation. R34: Causes burns. R32: intrating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from is howledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as subtle for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer The data given here in based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spremetes. The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withelmsen Ships Service Level 17, 636 St Kida Road Melbourne Vic 3004 AUSTRALIA Tet: +613 St 8000600 Emergency 24hrs; +613 St 800068 States Telephone daytms; (+1) 718 513 Sto Tax; (+1) 718 233 3288 Withelmsen Ships Service NO 2104 Australia, Austhand Center Two, Bay 12 Us- 10032 Folcroft Pennsylvania United States Tel (+1) 161 Sto 7200 Fax; (+1) 241 Sto 710 644 Withelmsen Ships Service INC 71 Abinal Ava. Ashland Center Two, Bay 12 Us- 10032 Folcroft Pennsylvania United States Tel (+1) 21 Sto 7200 Fax; (+1) 245 701 6446 Withelmsen Ships Service INC 71 Abinal Ava. Ashland Center Two, Bay 12 Us- 10032 Folcroft Pennsylvania United States Tel (+1) 21 Sto 7200 Fax; (+1) 245 7000 Fax; (+1) 245 700 70446 Withelmsen Ships Service INC 71 Abinal Ava2 204 Fax; 404 States Telephone daytims; (+1) 25 104 Cay 249 F17
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Flashpoint: N/A           -         IMDG Subrisk: N/A           -         IMDG Sishpoint: N/A           14.7 Air (ICAO/IATA)         (Mothanesulphonic acid solution)           -         ICAO UN No.: UN32265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Packing Group: III           -         ICAO Packing Group: III           -         ICAO Subrisk: NA	Reveloc: 10/27/2014 SECTION 16 Other information () serious eye irritation. R34: Causes burns. R35: Irritating to eye s. The information provided about the product on this Safety Data Sheet has been compiled from I howindige of the inidivatial constituents The data given here only applies when product used for proper application(s). The product is not sold as subtheff for other application(s) without seeking advice from manufacturer The data given here in based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product is product SS can be found on www.withelmsen.com/hipssen/ce OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withertmens hips Service LVC 2016 Edgewards Street US-1005 Staten Island New York United States Telephone daytime. (+1) 718 915 1310 Fax. (+1) 718 233 208 Withertmens hips Service LVC 2010 W. Parkin Coast Highwy LW-08/01 Long Beach California, Withertmens hips Service LVC 2010 W. Parkin Coast Highwy LW-08/01 Long Beach California, Withertmens hips Service LVC 2010 W. Parkin Coast Highwy LW-08/01 Long Beach California, Withertmens hips Service LVC 2010 W. Parkin Coast Highwy LW-08/01 Long Beach California, Withertmens hips Service LVC 1016 1508 001 Fax. (+1) 718 233 208 Withertmens hips Service LVC 1014 Daytherd Awa.Ashland Canter Two, Bay 12 US-10032 Folcrot PenngyAnna Linted States Telephone daytime. (+1) 610 588 701 Fax (+1) 213 872 Withertmens hips Service LVC 1010 Fax. (+1) 213 872 Withertmens hips Service LVC 1016 1000 Fax (+1) 213 872 Withertmens hips Service LVC 1014 Daytherd Awa.Ashland Canter Two, Bay 12 US-10032 Folcrot PenngyAnna Linted States Telephone daytime. (+1) 610 588 770 1764 2010 Withertmens hips Service LVC 1014 Daytherd Awa.Ashland Canter Two, Bay 12 US-10032 Folcrot Withertmens hips Service LVC 2000 VP. Parking 2000 Fax. (+1) 218 872 Withertmens hips Service LVC AND Revectable Daytherd Awa.Ashland Canter Two, Bay 12 US-10032 Withertmen hips Service L
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Hazard Class: 8           -         IMDG Pack Group:: II           -         IMDG Subrisk: NA           -         IMDG Flashpoint N/A           14.7 Air (ICAO/IATA)         -           -         ICAO UN No.: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         ICAO Hazard Class: 8           -         ICAO Packing Group: III           -         ICAO Pashing Torop: III           -         ICAO Subrisk: NA           -         ICAO Pashpoint: NA           14.8 DTV / CFR (US Department of Transportation)           -         Identication Number: UN3285           -         DDT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         DDT Toroper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         Product R0 (bs): NA           -         HazardOss Material: Methanesulphonic acid           -         Hazard Class: 8	Revision: 102/72014           SECTION 16 Other information ()           serious eye infration. R34: Causes burns. R38: Infrating to eyes.           The information provided about the product on this Safety Data Sheet has been compiled from - knowledge of the individual constituents           Information provided about the product on this Safety Data Sheet has been compiled from - knowledge of the individual constituents           The data given here only applies when product used for proper application(s). The product is not use for other applications - uses in such may cause risks on thermittioned in this sheet. Do not use for other applications - uses in such may cause risks on thermittioned in this sheet.           The data given here is based on current knowledge and experison. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.           The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssen/ce           OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES           Withermsen Ships Service Livel 17, 363 St Kilas Road Melbourre Viz 3004 AUSTRALIA           tat: +613 890 0000 Emergency 24/ms; +613 8630 0098           Withermsen Ships Service INC 210 Edgewate Street US-10305 Staten Island New York United States Tel (+1) 162 463 888 Fax (+1) 152 33 2288           Withermsen Ships Service INC 2101 Ashinda Mex. Ashiand Center Two, Bay 12 US-19032 Folorot Pennyhyania United States Tel (+1) 161 568 7801 Fax (+1) 215 701 0464           Withermsen Ships Service INC 2400 New Centruly DTv US-75707 Pasenasa Taxas United States Tel (+1) 8
Devision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organ c, n.o.s. (Michanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: II           -         IMDG Subrisk: NA           -         IMDG Sishspinit: N/A           114.7 Air (ICAO/ARTA)         -           -         ICAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Packing Group: III           -         ICAO Packing Group: III           -         ICAO Subrisk: NA           -         DOT Labels:           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         DOT Labels:           -         Product RG (bbj: NA           -         Hazard Osass: 8           -         DOT subrisk: NA	Revision: 1027/2014 SECTION 16 Other Information () serious eye inftation. R34: Causes burns. R36: Inftating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product is not sold as suble for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage states on use of the submetry of the submetr
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organ.c, n.o.s. (Mishanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Hazard Class: 8           -         IMDG Bash, Group: III           -         MDG Subrisk: NA           -         IMDG Sites Corrosive liquid, acidic, organ.c, n.o.s. (Methanesulphonic acid solution)           -         IAO UN No::: UN3225           -         Proper Shipping Name: Corrosive liquid, acidic, organ.c, n.o.s. (Methanesulphonic acid solution)           -         IGAO Bashpoint: N/A           -         IGAO Packing Group: III           -         IGAO Packing Group: III           -         IGAO Subrist: N/A           -         ICAO Packing Group: III           -         IGAO Subrist: N/A           -         ICAO Packing Group: III           -         IGAO Subrist: N/A           -         ICAO Packing Group: III           -         ICAO Subrist: N/A           -         ICAO Reshpoint: N/A           -         ICAT Labels:           -         Product RG (log): N/A           -         ICAT Labels:           - <td>Revision: 1027/2014           SECTION 16 Other information ()           serious eye inftation. R34: Causes burns. R36: Instaling to eyes.           The information provided about the product on this Safety Data Sheet has been compiled from - knowledge of the individual constituents           Information provided about the product used for proper application(s). The product is not soid as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product "s properties.           The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssen/ce           OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES.           Wilnehmen Ships Sancia L2012 Edgewards Strate (11) 138 200088           Wilnehmen Ships Sancia L2012 Edgewards Strate (11) 178 233 3288           Wilnehmen Ships Sancia L2012 Edgewards US-0305 Staten Island New York United States Tel (+1) 502 624 8888 Frax (+1) 522 624 1011           Wilnehmen Ships Senvice L2010 A Avexture US-0305 United States Tel (+1) 502 524 6888 Frax (+1) 215 701 0464           Pennsylvania United States Tel (+1) 610 580 7801 Fac (+1) 215 701 0464           Wilnehmen Ships Senvice L3012 Cay L3000000           Wilnehmen Ships Senvice L3012 States Island Center Two, Bay 12 US-19032 Folcord           Pennsylvania United States Tel (+1) 610 580 7801 Fac (+1) 215 701 0464           Pennsylvania United States Tel (+1) 610 580 78</td>	Revision: 1027/2014           SECTION 16 Other information ()           serious eye inftation. R34: Causes burns. R36: Instaling to eyes.           The information provided about the product on this Safety Data Sheet has been compiled from - knowledge of the individual constituents           Information provided about the product used for proper application(s). The product is not soid as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product "s properties.           The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssen/ce           OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES.           Wilnehmen Ships Sancia L2012 Edgewards Strate (11) 138 200088           Wilnehmen Ships Sancia L2012 Edgewards Strate (11) 178 233 3288           Wilnehmen Ships Sancia L2012 Edgewards US-0305 Staten Island New York United States Tel (+1) 502 624 8888 Frax (+1) 522 624 1011           Wilnehmen Ships Senvice L2010 A Avexture US-0305 United States Tel (+1) 502 524 6888 Frax (+1) 215 701 0464           Pennsylvania United States Tel (+1) 610 580 7801 Fac (+1) 215 701 0464           Wilnehmen Ships Senvice L3012 Cay L3000000           Wilnehmen Ships Senvice L3012 States Island Center Two, Bay 12 US-19032 Folcord           Pennsylvania United States Tel (+1) 610 580 7801 Fac (+1) 215 701 0464           Pennsylvania United States Tel (+1) 610 580 78
Investige:         Investige:         Investige:           SECTION 14         Transport information () <ul> <li>Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)</li> <li>IMDG Hazard Class: 8</li> <li>IMDG Pack Group:: II</li> <li>IMDG Subrisk: NA</li> <li>IMDG Flashpoint: N/A</li> <li>IMDG Subrisk: NA</li> <li>IMDG Subrisk: NA</li> <li>IMDG Flashpoint: N/A</li> <li>IAO UN No:: UN3225</li> <li>Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)</li> <li>IGAO Packing Group: III</li> <li>IGAO Packing Group: III</li> <li>IGAO Packing Group: III</li> <li>IGAO Subrisk: NA</li> <li>DDT Froper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)</li> <li>Identification Number: UN3256</li> <li>DDT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)</li> <li>DDT Labels:</li> <li>Product RG (Ibs): NA</li> <li>Hazard Olass: 8</li> <li>DDT Flashpoint: NA</li> </ul>	Revision: 1027/2014           SECTION 16 Other information ()           serious eye inftation. R34: Causes burns. R36: Instaling to eyes.           The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents           The data given here only applies when product used for proper application(s). The product is not soid as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks. The motioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product 's properties.           The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssenvice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES           Wilheimsen Ships Saveice Level 17, 636 3X kilds Road Melbourne Vic 3004 AUSTRALIA Tat: +613 850 3000 Emergency 24/8r; +613 863 0068! States Telephone daytime. (+1) 718 b151310 Fax. (+1) 718 233 3268 Wilheimsen Ships Saveice INC 7014 Ashibad Nex. Ashland Center Two, Bay 12 US-19032 Foloroft Pennsylvania United States Tel (+1) 1610 586 7801 Fax (+1) 215 701 0484 Wilheimsen Ships Saveice Level 12 as 1867 2800 Ratio States Tel (+1) 826 242 8888 Fax (+1) 582 2480 744 yr 2760 728 ashean Taxas United States Telephone daytime. (+1) 281 867 2800 Fax. (+1) 221 570 10246 Wilheimsen Ships Service List Rua Bispo Lacerda nos 61/67 Del Castino BR 2105/120 Rio de Janeiro Brazz Tel (+50) 212 Fax (+41) 22 248 744 Wilheimsen Ships Service List Rua Bispo Lacerda nos 61/67 Del Castino BR 2105/120 Rio
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organ E, n.o.s. (Michanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group:: II           -         IMDG Biashpoint: N/A           147.24 (ICAO/IATA)         -           -         IADG Subrisk: N/A           -         IADG Sisteppint: N/A           147.74 (ICAO/IATA)         -           -         ICAO UN No:: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Packing Group: III           -         ICAO Subrisk: NA           -         DOT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         DOT Labels:           -         Product R0 (IbS): IVA           -         Hazardoux Matariak: Mehanesulphonic acid           -         Product R0 (IbS): IVA           -         Hazardoux Matariak: Mehanesulphonic acid	Revision: 1027/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R36: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product in tot soid as suitable for often applications - usage in such may cause risks ont fremtioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product properties. The most up-to-date version of this MSDS can be found on www withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service INC 210 Edgewards Kitse Casst Highway US-30810 Long Beach California, United States Tel (+1) 105 825 8101 Fax (+1) 178 223 3288 Witherinsen Ships Service INC 2400 W. Pacht Cosst Highway US-30810 Long Beach California, United States Tel (+1) 162 858 1001 Fax (+1) 178 27507 Pasadena Texas United States Telephone daytime (+1) 218 B7 2000 Fax (+1) 218 2228 4774 Mentione Ships Service INC 4400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime (+1) 218 St 2000 Fax (+1) 218 228 4774 Mentione Ships Service INC 4400 Pire Lett 128 Pire Lett 128 Pire Lett 128 Pire Pire Lett 128 Pir
Teavision: 102/2014           SECTION 14         Transport information           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group:: II           -         IMDG Bashoft Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Pack Group:: II           -         IMDG Subrisk: NA           -         IMDG Subrisk: NA           -         IGAO Hazard Class: 8           -         IGAO UN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IGAO Packing Group: II           -         IGAO Bashpoint: NA           14.8 DDT / CPR (US Department of Transportation)           -         IGAO Rashpoint: NA           14.8 DDT / CPR (US Department of Transportation)           -         DOT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         DOT Labels:           -         Product R0 (Dis): NA           -         Hazard Olass 8           -         DOT Flashpoint: NA           -         DOT Flashpoint: NA <td< td=""><td>Revision: 1027/2014           SECTION 16 Other information ()           serious eye inftation. R34: Causes burns. R36: Instaling to eyes.           The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents           The data given here only applies when product used for proper application(s). The product is not soid as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks. The motioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product 's properties.           The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssenvice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES           Wilheimsen Ships Saveice Level 17, 636 3X kilds Road Melbourne Vic 3004 AUSTRALIA Tat: +613 850 3000 Emergency 24/8r; +613 863 0068! States Telephone daytime. (+1) 718 b151310 Fax. (+1) 718 233 3268 Wilheimsen Ships Saveice INC 7014 Ashibad Make. Ashland Center Two, Bay 12 US-19032 Foloroft Pennsylvania United States Tel (+1) 1610 586 7801 Fax (+1) 215 701 0484 Wilheimsen Ships Saveice Level 12 as 1867 2800 Ratio States Tel (+1) 826 242 8888 Fax (+1) 582 2480 744 yr 2760 728 ashean Texas United States Telephone daytime. (+1) 281 867 2800 Fax. (+1) 221 570 102461 Wilheimsen Ships Service List Rua Bispo Lacerda nos 61/67 Del Castino R 2105/120 Rio de Janeiro Brazz Tel (+50) 212 Fax (+41) 22 246 744 Wilheimsen Ships Service List Rua Bispo Lacerda nos 61/67 Del Castino Bra 2105/120 R</td></td<>	Revision: 1027/2014           SECTION 16 Other information ()           serious eye inftation. R34: Causes burns. R36: Instaling to eyes.           The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents           The data given here only applies when product used for proper application(s). The product is not soid as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other applications - usage in such may cause risks. The motioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product 's properties.           The most up-to-date version of this MSDS can be found on www.withelmsen.com/shipssenvice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES           Wilheimsen Ships Saveice Level 17, 636 3X kilds Road Melbourne Vic 3004 AUSTRALIA Tat: +613 850 3000 Emergency 24/8r; +613 863 0068! States Telephone daytime. (+1) 718 b151310 Fax. (+1) 718 233 3268 Wilheimsen Ships Saveice INC 7014 Ashibad Make. Ashland Center Two, Bay 12 US-19032 Foloroft Pennsylvania United States Tel (+1) 1610 586 7801 Fax (+1) 215 701 0484 Wilheimsen Ships Saveice Level 12 as 1867 2800 Ratio States Tel (+1) 826 242 8888 Fax (+1) 582 2480 744 yr 2760 728 ashean Texas United States Telephone daytime. (+1) 281 867 2800 Fax. (+1) 221 570 102461 Wilheimsen Ships Service List Rua Bispo Lacerda nos 61/67 Del Castino R 2105/120 Rio de Janeiro Brazz Tel (+50) 212 Fax (+41) 22 246 744 Wilheimsen Ships Service List Rua Bispo Lacerda nos 61/67 Del Castino Bra 2105/120 R
Tervision: 102/2014           SECTION 14         Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: II           -         IMDG Biashpoint: N/A           -         IMDG Subrisk: N/A           -         ICAO Hazard Class: 8           -         IMDG Subrisk: N/A           -         ICAO Flashpoint: N/A           -         ICAO IN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         ICAO Packing Group: II           -         ICAO Bashpoint: N/A           -         Poduct R0 (Ibb): N/A           -         Product R0 (Ibb): N/A           -         DOT Labels:           -         POduct R0 (Ibb): N/A           -         DOT Bashpoint: N/A           -         DOT aubris: N	Revision: 1027/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R36: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product in tot soid as suitable for often applications - usage in such may cause risks ont fremtioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product properties. The most up-to-date version of this MSDS can be found on www withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service INC 210 Edgewards Kitse Casst Highway US-30810 Long Beach California, United States Tel (+1) 105 825 8101 Fax (+1) 178 223 3288 Witherinsen Ships Service INC 2400 W. Pacht Cosst Highway US-30810 Long Beach California, United States Tel (+1) 162 858 1001 Fax (+1) 178 27507 Pasadena Texas United States Telephone daytime (+1) 218 B7 2000 Fax (+1) 218 2228 4774 Mentione Ships Service INC 4400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime (+1) 218 St 2000 Fax (+1) 218 228 4774 Mentione Ships Service INC 4400 Pire Lett 128 Pire Lett 128 Pire Lett 128 Pire Pire Lett 128 Pir
Intervision: 102/2014           SECTION 14         Transport information           -         Proper Shipping Name: Corrosive liquid, acidic, organ.c, n.o.s. (Michanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: III           -         IMDG Bash, NA           -         IMDG Pack Group: III           -         IMDG Bishpoint: N/A           11.7. Air (ICAO/IATA)         (Mothanesulphonic acid solution)           -         IADG Disks, NA           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         ICAO Hazard Class: 8           -         ICAO Packing Group: III           -         ICAO Bashpoint: NIA           14.8 DOT / CFR (US Department of Transportation)         -           -         IcAO Bashpoint: NIA           14.8 DOT / CFR (US Department of Transportation)         -           -         IcAO subrisk: NA           -         BOD Tabels:           -         Product R0 (log): NA           -         Hazard Olass: 8           -         DOT Tabels:           -         DOT Fishpoint: NA           SECTION 15         Regulatory information <td< td=""><td>Revision: 1027/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R36: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product in tot soid as suitable for often applications - usage in such may cause risks ont fremtioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product properties. The most up-to-date version of this MSDS can be found on www withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service INC 210 Edgewards Kitse Casst Highway US-30810 Long Beach California, United States Tel (+1) 105 825 8101 Fax (+1) 178 223 3288 Witherinsen Ships Service INC 2400 W. Pacht Cosst Highway US-30810 Long Beach California, United States Tel (+1) 162 858 1001 Fax (+1) 178 27507 Pasadena Texas United States Telephone daytime (+1) 218 B7 2000 Fax (+1) 218 2228 4774 Mentione Ships Service INC 4400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime (+1) 218 St 2000 Fax (+1) 218 228 4774 Mentione Ships Service INC 4400 Pire Lett 128 Pire Lett 128 Pire Lett 128 Pire Pire Lett 128 Pir</td></td<>	Revision: 1027/2014 SECTION 16 Other information () serious eye initiation. R34: Causes burns. R36: Initiating to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here only applies when product used for proper application(s). The product in tot soid as suitable for often applications - usage in such may cause risks ont fremtioned in this sheet. Do not use for other applications - usage in such may cause risks not mentioned in this sheet. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product properties. The most up-to-date version of this MSDS can be found on www withelmsen.com/shipsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service Level 17, 363 St Kilka Road Melbourne Vic 3004 AUSTRALIA Tet +613 9630 0000 Emergency 24hrs +613 9630 00968 Witherinsen Ships Service INC 210 Edgewards Kitse Casst Highway US-30810 Long Beach California, United States Tel (+1) 105 825 8101 Fax (+1) 178 223 3288 Witherinsen Ships Service INC 2400 W. Pacht Cosst Highway US-30810 Long Beach California, United States Tel (+1) 162 858 1001 Fax (+1) 178 27507 Pasadena Texas United States Telephone daytime (+1) 218 B7 2000 Fax (+1) 218 2228 4774 Mentione Ships Service INC 4400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime (+1) 218 St 2000 Fax (+1) 218 228 4774 Mentione Ships Service INC 4400 Pire Lett 128 Pire Lett 128 Pire Lett 128 Pire Pire Lett 128 Pir
Tervision: 102/2014           SECTION 14 Transport information ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         IMDG Hazard Class: 8           -         IMDG Pack Group: II           -         IMDG Bazard Class: 8           -         IMDG Pack Group: II           -         IMDG Subrisk: NA           -         IMDG Subrisk: NA           -         ICAO HAzard Class: 8           -         ICAO IN No: UN3265           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         ICAO Packing Group: III           -         ICAO Pashippint: NA           14.8 D0T / CFR (US Department of Transportation)           -         Identification Number: UN3265           -         DOT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           -         DOT Labels:           -         Product R0 (bs): NA           -         Hazard Class: 8           -         DOT subrisk: NA           -         DOT subrisk: NA           -         DOT subrisk: NA           -         DOT Subrisk: NA           -         DOT S	Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The most up-to-date version of this MSDS can be found on www.withelmsen.com/bitpsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermens Thips Service Luer 17, 303 St Mitka Road Mebourse Vic 2004 AUSTRALIA Tet - 613 9630 0900 Emergency 24/nrs + 613 9630 0908 Withermens Thips Service Luer 2010 Edgewards Street US-1030S Staten Island New York United States Telephone daytme. (+1) 718 B15 1310 Fax. (+1) 718 233 3288 Withermens Thips Service Luer 2010 UP, 2610 Fax. (+1) 718 233 2089 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service LUE (+1) 610 5887 1501 Fax. (+1) 213 8187 2000 Withermens Thips Service LUE (+1) 610 5887 15010 640 Withermens Thips Service LUE (+1) 610 5887 15010 Fax. (+1) 213 8187 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens
Tervision: 102/2014           SECTION 14 Transport information ()           - Proper Shipping Name: Corrosive liquid, acidic, organ E, n.o.s. (Michanesulphonic acid solution)           - IMDG Pack Group: II           - IMDG Pack Group: II           - IMDG Subrisk NA           - ICAO UN No:: UN3285           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           - ICAO Backing Corrosive Ilquid, acidic, organic, n.o.s.           - ICAO Backing Corrosive Ilquid, acidic, organic, n.o.s.           - ICAO Backing Corrosive Ilquid, acidic, organic, n.o.s.           - DOT Labeki:           - DOT Labeki:           - Product R0 (bg): NA           - Hazard Olass: 8           - DOT Flashpoint: NA           SECTION 15 Regulatory Information           15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture           - Regulations 12/22008/EEC. Classification, packing and labelling of dangerous substances and preparations           - Couroni: Directive 1909/45/EEC Classification, packing and labe	Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The most up-to-date version of this MSDS can be found on www.withelmsen.com/bitpsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermens Thips Service Luer 17, 303 St Mitka Road Mebourse Vic 2004 AUSTRALIA Tet - 613 9630 0900 Emergency 24/nrs + 613 9630 0908 Withermens Thips Service Luer 2010 Edgewards Street US-1030S Staten Island New York United States Telephone daytme. (+1) 718 B15 1310 Fax. (+1) 718 233 3288 Withermens Thips Service Luer 2010 UP, 2610 Fax. (+1) 718 233 2089 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service LUE (+1) 610 5887 1501 Fax. (+1) 213 8187 2000 Withermens Thips Service LUE (+1) 610 5887 15010 640 Withermens Thips Service LUE (+1) 610 5887 15010 Fax. (+1) 213 8187 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens
Tearsbort         Tearsbort         Tearsbort           SECTION 14         Transport information         ()           -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)         -           -         IMDG Hazard Class: 8         -         -           -         IMDG Pack Group: III         -         -           -         IMDG Bushic NIA         -         -           -         IMDG Subrisk NIA         -         -           -         IAOD UN No:: UN32255         -         Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.           -         ICAO Backing Group: III         -         -         -           -         ICAO Subrisk: NA         -         -         -           -         ICAO Backing Group: III         -         -         -           -         ICAO Subrisk: NA         -         -         -           -         DOT Labels:         -         -         -           -         Product RG (Ibg):	Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The most up-to-date version of this MSDS can be found on www.withelmsen.com/bitpsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermens Thips Service Luer 17, 303 St Mitka Road Mebourse Vic 2004 AUSTRALIA Tet - 613 9630 0900 Emergency 24/nrs + 613 9630 0908 Withermens Thips Service Luer 2010 Edgewards Street US-1030S Staten Island New York United States Telephone daytme. (+1) 718 B15 1310 Fax. (+1) 718 233 3288 Withermens Thips Service Luer 2010 UP, 2610 Fax. (+1) 718 233 2089 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service Luer (+1) 610 5887 15010 Fax. (+1) 213 807 2000 Withermens Thips Service LUE (+1) 610 5887 1501 Fax. (+1) 213 8187 2000 Withermens Thips Service LUE (+1) 610 5887 15010 640 Withermens Thips Service LUE (+1) 610 5887 15010 Fax. (+1) 213 8187 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens Thips Service LUE (+1) 610 5887 1500 1200 Case (+1) 218 817 2000 Withermens
Teavision: 102/2014           SECTION 14 Transport information ()           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)           - IMDG Hazard Class: 8           - IMDG Pack Group: III           - IMDG Flashpoint: N/A           - IMDG Subrisk: N/A           - IGAO Hazard Class: 8           - IMDG Subrisk: N/A           - IGAO UN No: UN3265           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)           - IGAO Hazard Class: 8           - IGAO Packing Group: III           - IGAO Packing Group: III           - IGAO Packing Group: III           - IGAO Bashpoint: N/A           - IGAO Packing Group: III           - IGAO Bashpoint: N/A           - IGAO Packing Group: III           - IGAO Bashpoint: N/A           - IGAO Packing Group: III           - IGAO Restrike: N/A           - IGAO Restrike: N/A           - IGAO Subrike: N/A           - IGAO Bashpoint: N/A           - IGAO Restrike: IMA           - IGAO Restrike: IMA           - IGAO Subrike: N/A           - IGAO Subrike: N/A           - Boot Restrike: IMA           - Boot Restrike: IMA           - DOT Labels:	Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The most up-to-date version of this MSDS can be found on www.withelmsen.com/bitpsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermens Thips Service Luer 17, 303 S1 Kills Road Mebourse Vic 2004 AUSTRALIA Tet - 613 9630 0900 Emergency 24/nrs + 613 9630 0908 Withermens Thips Service Luer 2010 Edgewards Street US-1030S Staten Island New York United States Telephone daytme. (+1) 718 B15 1310 Fax. (+1) 718 233 3288 Withermens Thips Service Luer 2010 UP, 2610 Fax. (+1) 718 233 2089 Withermens Thips Service Luer (+1) 610 5887 1590 Fax (+1) 270 12480 Withermens Thips Service Luer (+1) 610 5887 1597 179 264 2010 Withermens Thips Service LUE (+1) 610 5887 1597 179 264 264 2010 Withermens Thips Service LUE (+1) 610 5887 1597 170 1646 Withermens Thips Service LUE (+1) 610 5887 1570 1794 Withermens Thips Service LUE (+1) 610 5887 1570 1794 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Wit
Tervision: 102/2014           SECTION 14 Transport information ()           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)           - IMDG Hazard Class: 8           - IMDG Pack Group: III           - IMDG Subrisk N/A           - IMDG Sishspinit: N/A           114.7 Art (ICAO/IATA)           - ICAO UN No:: UN3285           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           - ICAO Packing Group: III           - ICAO Bashpoint: N/A           14.8 DOT / CFR (US Department of Transportation)           - Identification Number: UN3285           - DOT Flashpoint: N/A           14.8 DOT / OFR (US Department of Transportation)           - Identification Number: UN3285           - DOT Flashpoint: N/A           - Hazard Class: 8           - DOT Tabels:           - Product R0 (Ds): N/A           - Hazard Osas: N/A           - DOT Flashpoint: N/A           SECTION 15 Regulatory information           151 Safety, health and environmental regulations/Regislation specific for the substance or mixture           - R	Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The most up-to-date version of this MSDS can be found on www.withelmsen.com/bitpsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermens Thips Service Luer 17, 303 S1 Kills Road Mebourse Vic 2004 AUSTRALIA Tet - 613 9630 0900 Emergency 24/nrs + 613 9630 0908 Withermens Thips Service Luer 2010 Edgewards Street US-1030S Staten Island New York United States Telephone daytme. (+1) 718 B15 1310 Fax. (+1) 718 233 3288 Withermens Thips Service Luer 2010 UP, 2610 Fax. (+1) 718 233 2089 Withermens Thips Service Luer (+1) 610 5887 1590 Fax (+1) 270 12480 Withermens Thips Service Luer (+1) 610 5887 1597 179 264 2010 Withermens Thips Service LUE (+1) 610 5887 1597 179 264 264 2010 Withermens Thips Service LUE (+1) 610 5887 1597 170 1646 Withermens Thips Service LUE (+1) 610 5887 1570 1794 Withermens Thips Service LUE (+1) 610 5887 1570 1794 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Wit
Teversion: 102/2014           SECTION 14 Transport information ()           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Michanesulphonic acid solution)           - IMDG Hazard Class: 8           - IMDG Pack Group: III           - IMDG Flashpoint: N/A           114.7 Air (CAO/IATA)           - Organ S, A., S-B           - IMDG Subsits: N/A           114.7 Air (CAO/IATA)           - CAO Hazard Class: 8           - Organ S, A., S-B           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           - ICAO Hazard Class: 8           - ICAO Packing Group: III           - ICAO Packing Group: III           - ICAO Bashpoint: N/A           14.8 DOT / CFR (US Department of Transportation)           - Identification Number: UN3286           - DOT Labels:           - Product R0 (Ibs): N/A           - Bashpoint: N/A           - DOT Labels:           - Product R0 (Ibs): N/A           - DOT Filestpoint: N/A	Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The most up-to-date version of this MSDS can be found on www.withelmsen.com/bitpsservice OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES Withermens Thips Service Luer 17, 303 S1 Kills Road Mebourse Vic 2004 AUSTRALIA Tet - 613 9630 0900 Emergency 24/nrs + 613 9630 0908 Withermens Thips Service Luer 2010 Edgewards Street US-1030S Staten Island New York United States Telephone daytme. (+1) 718 B15 1310 Fax. (+1) 718 233 3288 Withermens Thips Service Luer 2010 UP, 2610 Fax. (+1) 718 233 2089 Withermens Thips Service Luer (+1) 610 5887 1590 Fax (+1) 270 12480 Withermens Thips Service Luer (+1) 610 5887 1597 179 264 2010 Withermens Thips Service LUE (+1) 610 5887 1597 179 264 264 2010 Withermens Thips Service LUE (+1) 610 5887 1597 170 1646 Withermens Thips Service LUE (+1) 610 5887 1570 1794 Withermens Thips Service LUE (+1) 610 5887 1570 1794 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Withermens Thips Service LUE (+1) 610 5887 1570 1046 Wit
Teamborn 102/2014           SECTION 14 Transport information ()           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Mchanesulphonic acid solution)           - IMDG Hazard Class: 8           - IMDG Pack Group:: II           - IMDG Flashpoint N/A           - IMDG Subrisk: NA           - IMDG Subrisk: NA           - IGAO Hazard Class: 8           - IMDG Subrisk: NA           - IGAO UN No:: UN3265           - Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Mcthanesulphonic acid solution)           - IGAO Hazard Class: 8           - IGAO Packing Group: II           - ICAO Backing Group: III           - ICAO Subrisk: NA           - ICAO Rabing Group: III           - ICAO Rabing Mame: Corrosive liquid, acidic, organic, n.o.s. (Methanesulphonic acid solution)           - DOT Labels:           - Product RG (Ibs): NA           - Hazard Olass: 8           - DOT Flashpoint: NA           - DOT Flashpoint: NA           - DOT Flashpoint: NA           - DOT Flashpoint: NA           - DOT Flashpoint: NA <t< td=""><td>Reveloc: 1027/2014 SECTION 16 Other information () Sector 16 Other information () serious eye imitation. R34: Causes burns. R35: Intraining to eyes. The information provided about the product used by proper application(s). The product is not sold as subthere the individual constituents. The data given here only applies when product used by proper application(s). The product is not sold as subthere is based on current knowledge and experiments. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product spreaders. The data given here is based on current knowledge and experiments. 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	Elaborado por	Revisado por	Aprobado por	Fecha	Revisión
Mahogany Baif	INTERMARIS	ROATAN CRUISE TERMINAL	DIRECCIÓN GENERAL DE MARINA MERCANTE	Diciembre-2019	1

# **APPENDIX IV - Stock of contingency equipment for hydrocarbon spills in the Terminal.**

N⁰	Material - Hoja Técnica	Marca	Item	Dimensión	Empaque	Cantidad	Capacidad de Absorción	Capacidad total	Imagen
1	Almohadilla Absorbente para aceite, petróleo	OIL-DRI	44Z106	19in x 15in	Caja x 100 un.	4	17 gal/caja	68 gal.	
	Rollo Absorbente pesado de polipropileno, absorbente para aceite, petróleo	n/e	3YEG6	15in x 150ft	Caja x 2 rollos	5	56 gal/ caja	280 gal.	
3	Barrera Absorbente de aceite, petróleo, color Naranja	BROOM	3RPT4	5ft	Caja x 2 un.	10	16 gal/ caja	160 gal.	
4	Detergente líquido	YOL	1-30	5 gal/ cubeta	Cubeta	10	n/a	n/a	
5	Tapete Absorbente para aceite, petróleo	SPC SPLIFYTER		16in x 100ft	Bolsas	9	24 gal/ bolsa	216 gal.	<b>N</b>
6	Kit Móvil de Respuesta ante Derrames	BRADY SPC ABSORBENTS	SKM-LT	Large	Contenedor Móvil	1	169 gal/ Kit	169 gal.	
7	Barrera de Contención Flotante		Amarillo		Unidad	7	n/a	ft o mts.	
8	Barrera Absorbente para aceite, petróleo, color Celeste	OIL-DRI	L90857	5in D x 10ft L	Paq x 4 un.	11 1/2	32 gal/ paq	368 gal.	AND A



## Plan de Contingencia Ante Derrame de Hidrocarburos y Sustancias Nocivas y Potencialmente Peligrosas

ROATAN CRUISE TERMINAL

Elaborado por	Revisado por Aprobado por		Fecha	Revisión
INTERMARIS	ROATAN CRUISE TERMINAL	DIRECCIÓN GENERAL DE MARINA MERCANTE	Diciembre-2019	1

APPENDIX V - Diesel Data Sheet <sup>10</sup>

# Hoja de Datos de Seguridad



SECCIÓN 1 IDENTIFICACIÓN DEL PRODUCTO Y LA COMPAÑÍA

## DIESEL FUEL No. 2

Uso del Producto: Combustible [Busque Números de Productos Adicionales en la sección 16] Sinónimos: 15 S Diesel Fuel 2, Alternative Low Aromatic Diesel (ALAD), Calco LS Diesel 2, CALCO ULS C-B0-B5 DF2, CALCO ULS C-B0-B5 DF2 DYED, CALCO ULS C-B2 DF2, CALCO ULS C-B2 DF2 DYED, CALCO ULS C-B5 DF2, CALCO ULS C-B5 DF2 DYED, Calco ULS DF2, Calco ULS Diesel 2, CALCO ULS S-B0-B5 DF2 DYED, Calco ULS S-B5 DF2, Calco ULS S-B5 DF2 DYED, CALCO ULS TC-B1 DF2, CALCO ULS TC-B1 DF2 DYED, CALCO ULS TC-B2 DF2, CALCO ULS TC-B2 DF2 DYED, CALCO ULS TC-B3 DF2, CALCO ULS TC-B3 DF2 DYED, CALCO ULS TC-B4 DF2, CALCO ULS TC-B4 DF2 DYED, CALCO ULS TC-B5 DF2, CALCO ULS TC-B5 DF2 DYED, CALCO ULS TX-B1 DF2, CALCO ULS TX-B1 DF2 DYED, CALCO ULS TX-B2 DF2, CALCO ULS TX-B2 DF2 DYED, CALCO ULS TX-B3 DF2 CALCO ULS TX-B3 DF2 DYED, CALCO ULS TX-B4 DF2, CALCO ULS TX-B4 DF2 DYED, CALCO ULS TX-B5 DF2, CALCO ULS TX-B5 DF2 DYED, Chevron LS Diesel 2, Chevron ULS Diesel 2, CT ULS C-80-85 DF2, CT ULS C-80-85 DF2 DYED, CT ULS C-82 DF2, CT ULS C-85 DF2, CT ULS S-80-85 DF2 DYED, CT ULS S-B5 DF2, CT ULS S-B5 DF2 DYED, CT ULS S-B0-B5 DF2, CT ULS SPECIAL DF2 DYED, CT ULS TC-B1 DF2, CT ULS TC-B2 DF2, CT ULS TC-B3 DF2, CT ULS TC-B4 DF2, CT ULS TC-B5 DF2, CT ULS TX-B1 DF2, CT ULS TX-B2 DF2, CT ULS TX-B3 DF2, CT ULS TX-B4 DF2, CT ULS TX-B5 DF2, Diesel Fuel Oil, Diesel Grade No. 2, Diesel No. 2-D S15, Diesel No. 2-D S500, Diesel No. 2-D S5000, Distillates, straight run, Gas Oil, HS Diesel 2, HS Heating Fuel 2, Light Diesel Oil Grade No. 2-D, LS Diesel 2, LS Heating Fuel 2, Marine Diesel, RR Diesel Fuel, Texaco Diesel, Texaco Diesel No. 2, ULS C-80-85 DF2, ULS C-80-85 DF2 DYED, ULS C-82 DF2, ULS C-82 DF2 DYED, ULS C-85 DF2, ULS C-85 DF2 DYED, ULS S-80-85 DF2 DYED, ULS S-85 DF2, ULS S-80-85 DF2, ULS TC-81 DF2, ULS TC-81 DF2 DYED, ULS TC-B2 DF2, ULS TC-B2 DF2 DYED, ULS TC-B3 DF2, ULS TC-B3 DF2 DYED, ULS TC-B4 DF2, ULS TC-B4 DF2 DYED, ULS TC-B5 DF2, ULS TC-B5 DF2 DYED, ULS TX-B1 DF2, ULS TX-B1 DF2 DYED, ULS TX-B3 DF2, ULS TX-B3 DF2 DYED, ULS TX-B4 DF2, ULS TX-B4 DF2 DYED, ULS TX-B5 DF2, ULS TX-B5 DF2 DYED, Ultra Low Sulfur Diesel 2 Identificación de la compañía Chevron Products Company Marketing, MSDS Coordinator 6001 Bollinger Canyon Road San Ramon, CA 94583 United States of America

Respuesta a emergencia de transportación CHEMTREC: (800) 424-9300 or (703) 527-3887 Emergencia Médica Centro de Información de Emergencia de Chevron: Localizado en los Estados Unidos de América. Se aceptan llamadas internacionales por cobrar. (800) 231-0623 o (510) 231-0623 Información sobre el Producto Solicitudes de MSDS: http://www.chevron.com/contact/ Información Técnica: (510) 242-5357

Revision Number: 24 Revision Date: MAYO 07, 2015 1 of 12

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	Prepared by	Reviewed by	Approved by	Date	Review
Mahogand Baif	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

NOTAS ESPECIALES: Esta Hoja de Datos sobre la Seguridad de Sustancias (MSDS) cubre todos los Combustibles Diésel No. 2 CARB & no-CARB de Chevron, Texaco y Calco. El contenido de azufre es de menos de 0.5% (masa). Se agrega tinte rojo al combustible exento de impuestos. (MSDS 6894) NOTAS ESPECIALES: Esta Hoja de Datos sobre la Seguridad de Sustancias (MSDS) cubre todos los Combustibles Diesel No. 2 CARB Bajos de Azufre de Chevron y Calco. Se agrega tinte rojo al combustible exento de impuestos. (MSDS 7098)

### SECCIÓN 2 IDENTIFICACIÓN DE RIESGOS

CLASIFICACIÓN: Líquido inflamable: Categoría 3. Tóxico por aspiración: Categoría 1. Carcinógeno: Categoría 1B. Irritación de la piel: Categoría 2. Tóxico para órganos diana (exposición reiterada): Categoría 2. Tóxico para órganos diana (sistema nervioso central): Categoría 3. Tóxico agudo por inhalación: Categoría 4. Tóxico agudo de medios acuáticos: Categoría 2. Tóxico crónico de medios acuáticos: Categoría 2.



Palabra señal: Peligro

Peligros físicos: Líquido y vapor inflamables.

Peligros para la salud: Puede ser mortal si se ingiere y entra en las vías respiratorias. Puede provocar cáncer. Causa una irritación dérmica. Nocivo de ser inhalado. Puede causar somnolencia o mareos.

Órganos objetivos: Puede causar daño a los órganos (Sangre/Órganos hematopoyéticos, Hígado, Timo) por exposición prolongada o repetida.

Peligros ambientales: Tóxico para la vida acuática con efectos de larga duración.

#### DECLARACIONES DE ADVERTENCIA

General: Mantenga lejos del alcance de los niños. Lea la etiqueta antes de usar.

Prevención: Obtenga instrucciones especiales antes de usar. No lo manipule hasta haber leído y entendido todas las instrucciones de seguridad. Mantenga alejado del calor, las chispas, las llamas abiertas y las superficies calientes. – No fumar. Conecte el recipiente y el equipo receptor a tierra y entre sí. Use sólo herramientas que no generen chispas. Tome medidas de precaución contra descargas electrostáticas. Mantenga el recipiente herméticamente cerrado. Use aparatos eléctricos/de ventilación/de iluminación/equipos a prueba de explosión. No respire polvo/humo/gas/neblina/vapores/atomizado. Use solamente en exteriores o en zonas bien ventiladas. Use guantes y vestimenta protectores y protección ocular y facial. Use equipo de protección personal como sea requerido. Lávese minuciosamente después de manipularlo. Evite pérdidas al medio ambiente.

Respuesta: SI SE INHALA: Lleve a la persona al aire libre y manténgala en una posición confortable para la respiración. SI SE DEPOSITA SOBRE LA PIEL: Lávese con abundante agua y jabón. Si se manifiesta una irritación en la piel: Obtenga consejo/atención médica. Sáquese la ropa contaminada y lávela antes de volver a usarla. SI SE DEPOSITA SOBRE LA PIEL (o el pelo): Sáquese inmediatamente la ropa contaminada y lávela antes de volver a usarla. Enjuáguese la piel con agua/ducha. SI SE INGIERE: Llame de inmediato a un centro de venenos o a un médico. NO induzca el vómito. Llame a un centro de

Revision Number: 24 Revision Date: MAYO 07, 2015 2 of 12

X	-	ncy Plan for S Il and Potentia Substanc	ROATAN CRUISE TERMINAL		
	Prepared by	Reviewed by	Approved by	Date	Review
Mahogany Bay	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

venenos o a un médico si no se siente bien. En caso de incendio: Use los medios especificados en la Hoja de Datos de Seguridad para la extinción. Tratamiento específico (véase Notas al Médico en esta etiqueta). Recoja el derrame.

Almacenamiento: Almacene en un lugar bien ventilado. Mantenga fresco. Mantenga el recipiente herméticamente cerrado. Almacene bajo llave.

Desecho: Deseche los contenidos y/o el recipiente de acuerdo con los reglamentos municipales/regionales/nacionales/internacionales que correspondan.

#### PELIGROS NO CLASIFICADOS DE OTRO MODO: Not Applicable

#### SECCIÓN 3 COMPOSICIÓN/ INFORMACIÓN SOBRE LOS INGREDIENTES

COMPONENTES	NÚMERO DEL CAS	CANTIDAD
Combustible diésel, número 2	68476-34-6	95 - 100 %vol/vol
Ésteres metílicos de ácidos (FAME)	Mezda	0 - 5 %vol/vol
Alcanos, C10-20, ramificados y lineales	928771-01-1	0 - 5 %vol/vol
Naftaleno	91-20-3	0.02 - 0.2 %vol/vol
Total de azufre	Mezda	0 - 5000 ppm (en peso)

#### SECCIÓN 4 MEDIDAS DE PRIMEROS AUXILIOS

#### Descripción de las medidas de primeros auxilios

Ojo: No hacen falta medidas específicas de primeros auxilios. A modo de precaución, quítese los lentes de contacto, si los trae puestos y lávese los ojos con agua.

Piel: Lávese la piel con agua inmediatamente y quítese las ropas y los zapatos contaminados. Procure atención médica si sobreviene algún síntoma. Para quitarse la sustancia de la piel, use agua y jabón. Deseche la ropa y los zapatos contaminados o límpielos a cabalidad antes de volverlos a usar.

Ingestión: Si se traga, procure atención médica inmediatamente. No induzca el vómito. Nunca le dé nada por la boca a una persona inconsciente.

Inhalación: Mueva a la persona expuesta al aire fresco. Si no hay respiración, dé respiración artificial. Si la respiración se dificulta, proporcione oxígeno. Si las dificultades de respiración continúan o se desarrollan otros síntomas, obtenga atención médica.

#### Síntomas y efectos más importantes, tanto graves como retrasados EFECTOS INMEDIATOS PARA LA SALUD

Ojo: No se anticipa que cause irritación prolongada o significativa a los ojos.

Piel: El contacto con la piel causa irritación. Entre los síntomas se pueden encontrar dolor, picazón, decoloración, inflamación y formación de ampollas. No se espera que el contacto con la piel cause una respuesta alérgica en la piel.

Ingestión: Sumamente tóxico; pueder ser fatal si se traga. A causa de su baja viscosidad, esta sustancia puede entrar directamente a los pulmones si se traga o al vomitarse posteriormente. Una vez que está en los pulmones, es muy difícil de extraer y puede causar lesiones severas o muerte. Puede irritar la boca, la garganta y el estómago. Entre los síntomas se pueden encontrar dolor, náusea, vómitos y diarrea. Inhalación: El vapor o las emanaciones de esta sustancia puede causarn irritación respiratoria. Las neblinas o atomizaciones de esta sustancia puede causarn irritación respiratoria. Entre los síntomas de la irritación respiratoria se pueden encontrar tos y dificultad al respirar. La respiración excesiva o prolongada

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de esta sustancia puede causar efectos en el sistema nervioso central. Entre los efectos causados al sistema nervioso se pueden encontrar dolor de cabeza, aturdimiento, náusea, vómitos, debilidad, pérdida de coordinación, visión borrosa, somnolencia, confusión y desorientación. A exposiciones extremas, entre los efectos causados al sistema nervioso se pueden encontrar depresión respiratoria, temblores y convulsiones, pérdida del conocimiento, coma y muerte.

#### EFECTOS RETARDADOS SOBRE LA SALUD O DE OTRO TIPO:

Cáncer: Los gases de escape entero de los motores de diésel han sido clasificados como carcinógeno del Grupo 2A (probablemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC). La exposición repetida o prolongada a esta sustancia puede causar cáncer. Contiene naftaleno, que ha sido clasificado como un carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Investigaciones sobre el Cáncer (IARC).

Órganos Blanco: Contiene sustancia que puede causar daño a el/los siguiente(s) órgano(s) después de inhalación repetida a concentraciones por encima del límite de exposición recomendado sobre la base de datos provenientes de animales:Hígado Sangre-Órganos Productores de Sangre Timo El riesgo depende de la duración y nivel de exposición. Busque más información en la sección 11.

#### Indicación de atención médica inmediata y tratamiento especial necesario

Nota para los Médicos: La ingestión de este producto o el vomitarla posteriormente puede resultar en la aspiración de líquido compuesto de hidrocarburos líquidos ligeros, lo cual puede causar neumonitis.

#### SECCIÓN 5 MEDIDAS PARA LA EXTINCIÓN DE INCENDIOS

MEDIOS EXTINTORES: Use niebla de agua, espuma, materiales químicos secos o dióxido de carbono (CO2) para extinguir las llamas.

Riesgos de incendio fuera de lo común: Busque en la sección 7 el modo adecuado de manejo y almacenamiento.

#### PROTECCIÓN DE LOS BOMBEROS:

Instrucciones para la Extinción de Incendios: Con respecto a los fuegos que tengan que ver con esta sustancia, no entre ningún espacio de incendio cerrado o confinado sin haberse puesto los adecuados equipos protectores, incluyendo aparato de respiración autónoma.

Productos de la Combustión: Depende mucho de las condiciones de combustión. Se puede desarrollar una mezcla compleja de sólidos, líquidos y gases aerotransportados, incluyendo monóxido de carbono, dióxido de carbono y compuestos orgánicos no identificados al combustionarse esta sustancia.

#### SECCIÓN 6 MEDIDAS QUE DEBEN ADOPTARSE EN CASO DE LIBERACIÓN ACCIDENTAL

Medidas de Protección: Elimine todas las fuentes de ignición cerca del derrame o del vapor despedido. Si la sustancia se propaga al área de trabajo, evacúela inmediatamente. Vigile el área con el indicador de gas combustible.

Manejo de Derrames: Detenga la fuente de la emisión si lo puede hacer sin correr riesgo. Contenga la emisión para evitar la contaminación adicional de los terrenos, las aguas superficiales y las aguas subterráneas. Limpie el derrame lo más pronto posible, observando las precauciones que aparecen en Controles de Exposición-Protección Personal. Use las técnicas que correspondan tales como aplicar materiales absorbentes no combustibles o bombeo. Todos los equipos que se usen para manejar el producto deben tener conexión a tierra. Se puede usar espuma supresora de vapores para reducir éstos. Use herramientas limpias que no echan chispas para recolectar el material absorbido. Cuando sea factible y apropiado, quite y retire la tierra contaminada. Coloque los materiales contaminados en recipientes desechables y deséchelos observando los reglamentos correspondientes.

Reportes: Reporte los derrames a las autoridades locales y/o al Centro de Respuesta Nacional de la



Guardia Costera de los EE.UU. al número de teléfono (800) 424-8802 según se exija o corresponda.

#### SECCIÓN 7 MANEJO Y ALMACENAMIENTO

Información sobre su Manejo en General: Evite contaminar la tierra o echar esta sustancia en los sistemas de desagüe o en los cuerpos de agua.

Medidas Precautorias: El líquido se evapora forma vapor (emanaciones) que pueden prender fuego e inflamarse con una violencia explosiva. El vapor invisible se propaga fácilmente y lo pueden encender diversas fuentes de ignición tales como luces piloto, equipos de soldadura y motores e interruptores eléctricos. El peligro de incendio es más elevado cuando la temperatura del líquido pasa por encima de los 85F (29.4C).

No deje qué le caiga en los ojos, en la piel o en la ropa. No lo pruebe ni lo trague. No respire vapores ni emanaciones. No respire la neblina. Lávese bien después de manipularlo. Manténgalo fuera del alcance de los niños.

Riesgos de Manejo Poco Comunes: ¡ADVERTENCIA! No usar como calentador portátil ni combustible para utensilios domésticos. Pueden acumularse emanaciones tóxicas y causar la muerte. Puede tener lugar una generación lenta de calor con trapos empapados en aceite, ayudantes de filtración agotados y materiales absorbentes agotados y puede provocar una combustión espontánea si se almacena cerca de combustibles y no se manipula apropiadamente. Almacene trapos empapados de biodiésel, ayudantes de filtración y materiales absorbentes de derrames en contenedores de eliminación segura aprobados y ellimine de una manera apropiada. Los trapos empapados de biodiésel pueden laverse con agua y jabón y permitírseles secar en una zona bien ventilada.

Riesgo Estático: La descarga electroestática se puede acumular y crear una condición peligrosa cuando se maneja este material. Para minimizar este peligro, la unión y conexión a tierra puede ser necesaria, pero pueden ser insuficientes por sí solos. Revise todas las operaciones que tengan el potencial de generar y acumular una carga electroestática y/o una atmósfera inflamable (incluyendo las operaciones de llenado del tanque y recipiente, salpicaduras al llenar, limpieza del tanque, muestreos, calibración, cambios de carga, filtrado, mezclado, agitación y camión al vacío) y utilice los procedimientos mitigantes adecuados.

Advertencias Acerca de los Recipientes: El recipiente no está diseñado para contener presión. No use presión para vaciar el recipiente porque éste se puede quebrar o romper con fuerza explosiva. Los recipientes vacíos contienen residuos del producto (sólido, líquido y/o vapor) y pueden ser peligrosos. No presurice, corte, suelde de manera alguna, taladre, esmerile, triture ni exponga a dichos recipientes al calor, llamas, chispas, electricidad estática ni a ninguna otra fuente de ignición. Pueden explotar y causar lesiones o muerte. Los recipientes vacíos se deben vaciar escurriéndolos por completo, taponarlos de manera adecuada y devolverlos prontamente a un reacondicionador de bidones, o desecharlos como es debido.

Información sobre su Almacenamiento en General: NO LO/LA USE NI GUARDE cerca del calor, chispas, llamas ni superficies calientes. SOLAMENTE EN ÁREA BIEN VENTILADA. Mantenga el recipiente cerrado cuando no lo esté usando.

### SECCIÓN 8 CONTROLES DE EXPOSICIÓN/PROTECCIÓN PERSONAL

#### CONSIDERACIONES GENERALES:

Considere los peligros en potencia de este material (ver Sección 3), límites de exposión aplicables, actividades laborales, y otras sustancias en el centro de trabajo al diseñar controles tecnológicos y seleccionar los equipos protectores personales. Si los controles tecnológicos o las prácticas laborales no son adecuados para impedir la exposisicón a niveles nocivos de este material, se recomiendan los equipos protectores personales que aparecen a continuación. El usuario debe leer y entender todas las instrucciones y limitaciones que se suministran con los equipos ya que por lo general se provee protección durante un tiempo limitado o bajo ciertas circunstancias.

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### CONTROLES DE INGENIERÍA:

Use barreras de protección para encerrar el lugar donde se realiza el proceso, ventilación local de extracción y demás controles tecnológicos para mantener los niveles aerotransportados por debajo de los límites recomendados de exposición.

### EQUIPO DE PROTECCIÓN PERSONAL

Protección de ojos/cara: Normalmente no hace falta protección especial para los ojos. Cuando sea posible que la sustancia salpique, póngase gafas de seguridad con resguardos laterales como una buena práctica de seguridad.

Protección de la Piel: Póngase ropas protectoras para evitar el contacto con la piel. La selección de ropas protectoras puede include guantes, delantal, botas y protección facial completa dependiendo de las operaciones que se realicen. Los materiales que se sugieren para guantes protectores incluyen: Polietileno clorado (o polietileno clorosulfonado), Hule de Nitrilo, Poliuretano, Viton.

Protección Respiratoria: Determine si las concentraciones aerotransportadas están por debajo de los límites de exposición ocupacional recomendados para la jurisdicción donde se use. Si están por encima de éstos, póngase un respirador aprobado que le dé adecuada protección contra esta sustancia, tal como: Respirador con Purificación de Aire para Vapores Orgánicos.

Cuando se usa como combustible, esta sustancia puede producir monóxido de carbono en los gases de escape. Determine si las concentraciones aerotransportadas están por debajo del límite de exposición ocupacional para el monóxido de carbono. Si no lo están, póngase un respirador aprobado de suministro de aire a presión positiva.

Use un respirador de suministro de aire a presión positiva en circunstancias en las que los respiradores de purificación de aire tal vez no provean protección adecuada.

Componente	Agencia	TWA	STEL	Limite Tope	Notación
Combustible diésel, número 2	ACGIH	100 mg/m3	-	-	Plei A3 hidrocarbur o total
Combustible diésel, número 2	CVX		1000 mg/m3		-
Ésteres metilicos de ácidos (FAME)	No pertinente		-	-	-
Alcanos, C10-20, ramificados y Ineales	No pertinente	-	-	-	-
Naftaleno	ACGIH	10 ppm (weight)	15 ppm (weight)	-	Piel
Naftaleno	OSHA Z-1	50 mg/m3	-	-	-
Total de azufre	No pertinente				-

#### Límites de Exposición Ocupacional:

Consulte a las autoridades locales para averiguar cuáles son los valores adecuados.

### SECCIÓN 9 PROPIEDADES FÍSICAS Y QUÍMICAS

Atención: los datos que aparecen a continuación son valores típicos y no constituyen una especificación.

Color: Varía dependiendo de la especificación

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Estado físico: Líquido Olor: Olor del petróleo Umbral del olor: No Hay Datos Disponibles pH: No pertinente Presión de vapor: 0.04 kPa (Approximado) @ 40 °C (104 °F) Densidad de vapor (Aire = 1): >1 Punto de ebullición inicial: 175.6°C (348°F) - 370°C (898°F) Solubilidad: Soluble en hidrocarburos; insoluble en agua Punto de congelación: No pertinente Punto de fusión: No pertinente Gravedad específica: 0.8 - 0.88 @ 15.6°C (60.1°F) (Típico) Viscosidad: 1.9 cSt - 4.1 cSt @ 40°C (104°F) Temperatura de descomposición: No Hay Datos Disponibles octanol/agua, coeficiente de partición: No Hay Datos Disponibles

PROPIEDADES INFLAMABLES: Inflamabilidad (sólido, gas): No Hay Datos Disponibles

Punto de Inflamación: (Método Pensky-Martens de Copa Cerrada) 52 °C (125 °F) Mínimo Autoignición: 257 °C (494 °F) Límites de Inflamabilidad (Explosivos) (% por volumen en aire): Inferior: 0.6 Superior: 4.7

#### SECCIÓN 10 ESTABILIDAD Y REACTIVIDAD

Reactividad: Puede reaccionar con los ácidos fuertes o los agentes oxidantes potentes, tales como cloratos, nitratos, peróxidos, etc.

Estabilidad Química: Esta sustancia se considera estable en condiciones de temperatura y presión anticipadas para su almacenaje y manipulación y condiciones normales de ambiente.

Condiciones que Deben Evitarse: Evitar el contacto con el calor, chispas, fuego y agentes oxidantes Incompatibilidad con Otros Materiales: No pertinente

Productos Peligrosos de la Descomposición: No se conoce ninguno/a (No se anticipa ninguno/a) Polimerización Peligrosa: No experimentará polimerización peligrosa.

#### SECCIÓN 11 INFORMACIÓN TOXICOLÓGICA

Información sobre efectos toxicológicos

Irritación/Daño grave en el ojo: El riesgo de irritación ocular corresponde a la evaluación de datos con respecto a materiales similares.

Irritación/Corrosión de la piel: El riesgo de irritación de la piel corresponde a la evaluación de datos con respecto a materiales similares.

Sensibilización de la Piel: El riesgo de sensibilización de la piel corresponde a la evaluación de datos con respecto a materiales similares.

Toxicidad Dérmica Aguda: El riesgo de toxicidad cutánea grave corresponde a la evaluación de datos con respecto a materiales similares.

Toxicidad Oral Aguda: El riesgo de toxicidad oral grave corresponde a la evaluación de datos con respecto a materiales similares.

Toxicidad por Inhalación Aguda: El riesgo de toxicidad grave por inhalación corresponde a la evaluación de datos con respecto a materiales similares.

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Estimación de toxicidad aguda: No determinado

Mutagenia de células reproductoras: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

Carcinogenia: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar. Los gases de escape entero de los motores de diésel han sido clasificados como carcinógeno del Grupo 2A (probablemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC). Contiene naftaleno, que ha sido clasificado como un carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Investigaciones sobre el Cáncer (IARC).

Toxicidad reproductiva: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

Toxicidad específica para el órgano objetivo: exposición única: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

Toxicidad específica para el órgano objetivo: exposición reiterada: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

#### INFORMACIÓN ADICIONAL DE TOXICOLOGÍA:

El Instituto Nacional de Seguridad y Salud Ocupacional de EE.UU. (NIOSH) ha recomendado que los gases de escape entero de diésel sean considerados potencialmente causantes de cáncer. Esta recomendación se basó en resultados de pruebas que mostraron un aumento en cáncer pulmonar en animales de laboratorio expuestos a los gases de escape entero de diésel. Este producto contiene naftaleno. TOXICIDAD GENERAL: Se ha reportado que la exposición al naftaleno causa metahemoglobinemia y/o anemia hemolítica, especialmente en los humanos deficientes en la enzima glucosa-6-fosfato deshidrogenasa. Los animales de laboratorio que recibieron dosis orales repetidas de naftaleno han desarrollado cataratas. TOXICIDAD REPRODUCTIVA Y DEFECTOS CONGÉNITOS: EI naftaleno no causó defectos congénitos cuando se administró por vía oral a conejas, ratas y ratonas durante la gestación, pero redujo ligeramente el tamaño de las camadas de ratones a niveles de dosificación que fueron letales para las hembras preñadas. Se ha reportado que el naftaleno cruza la placenta humana. TOXICIDAD GENÉTICA: El naftaleno causó aberraciones cromosómicas e intercambios de cromátidas hermanas en células de ovario de hámster chino, pero no fue mutagénico en varias otras pruebas in vitro. CARCINOGENICIDAD: En un estudio realizado por el Programa Nacional de Toxicología (NTP) de EE.UU., los ratones expuestos por inhalación diariamente a 10 ó 30 ppm de naftaleno durante dos años tuvieron inflamación crónica de la nariz y los pulmones y frecuencias más altas de metaplasia en esos tejidos. La frecuencia de tumores pulmonares benignos (adenomas alveolares/bronquiolares) aumentó significativamente en el grupo de las hembras tratadas con la dosis alta pero no en los grupos de los machos. En otro estudio de inhalación de dos años realizado por el NTP, la exposición de ratas a 10, 30 y 60 ppm de naftaleno produjo aumentos en las frecuencias de varias lesiones no neoplásicas de la nariz. Se observaron aumentos de los tumores nasales en los animales de ambos sexos, incluyendo neuroblastomas olfatorios en las hembras tratadas con 60 ppm y adenomas del epitelio respiratorio en los machos tratados con todas las dosis. No se ha establecido la importancia que tienen estos efectos en los humanos. No se reportó ningún efecto carcinogénico en un estudio de administración en la dieta durante 2 años en ratas que recibieron naftaleno en dosis de 41 mg/kg/día.

Este producto contiene gasóleos. La CONCAWE (expediente de producto 95/107) ha resumido los actuales datos sobre la salubridad, seguridad y ambiente de una serie de gasóleos, típicamente los destilados medios hidrodesulfurizados, CAS 64742-80-9, los destilados medios de destilación directa, CAS 64741-44-2, y/o los destilados ligeros resultantes de craqueo catalítico CAS 64741-59-9. CARCINOGENICIDAD: Todas las sustancias examinadas han causado el desarrollo de tumores dérmicos

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en ratones, pero todos presentaron severa irritación de la piel y a veces un largo período de latencia antes de que se desarrollaran los tumores. Se estudiaron muestras de gasóleos de destilación directa y de gasóleos craqueados para determinar la influencia de la irritación dérmica en la actividad carcinogénica de los destilados medios. A dosis no irritantes el gasóleo de destilación directa no resultó ser carcinogénico. pero a dosis irritantes se demostró la existencia de una débil actividad. Los gasóleos craqueados, al diluirlos con aceite mineral, demostraron actividad carcinogénica independientemente de la ocurrencia de irritación dérmica. Se pusieron a prueba gasóleos en ratones macho con el fin de estudiar la actividad iniciadora o promotora de tumores. Los resultados demostraron que, aunque la muestra de gasóleo de destilación directa no fue ni iniciadora ni promotora, la mezcla de gasóleo de destilación directa y de aceite de base FCC sí resultó ser iniciadora así como promotora de tumores. GENOTOXICIDAD: Los gasóleos hidrotratados e hidrodesulfurizados varían en actividad de inactivos a débilmente positivos en los ensayos in vitro de mutagenicidad bacteriana. Los ensayos de linfoma de ratón con gasóleos de destilación directa sin subsiguiente hidrodesulfurización dieron resultados positivos en la presencia de activación metabólica por la S9. Los componentes producidos por destilación directa con y sin hidrodesulfurización examinados a través de la citogenética de la médula ósea in vivo y del ensayo de intercambio entre cromátidas hermanas no dieron muestras de actividad. Los gasoleos craqueados térmica o catalíticamente que se sometieron a prueba con ensayos in vitro de mutagenicidad bacteriana en la presencia de activación metabólica por la S9 dieron muestras de ser mutagénicos. Los ensayos in vitro de intercambio entre cromátidas hermanas realizados con gasóleo craqueado dieron resultados equívocos tanto con activación metabólica por la S9 como sin ella. El ensayo citogenético de la médula ósea in vivo resultó ser inactivo con las dos muestras de gasóleo craqueado. Se pusieron a prueba tres gasóleos hidrocraqueados mediante ensayos in vitro de mutagenicidad bacteriana con la S0, y uno de los tres dio resultados positivos. Doce muestras de combustibles destilados se examinaron mediante ensayos de mutagenicidad bacteriana in vitro y con activación metabólica por la S9 y dieron resultados que fueron de negativos a débilmente positivos. En una serie, se demostró que la actividad estaba relacionada con el contenido de PCA en las muestras examinadas. También se realizaron dos estudios in vivo. Un ensayo de dominante letal de ratón de una muestra de combustible diésel dio negativo. En el otro estudio, 9 muestras de aceite de calefacción No. 2 que contenían 50% de aceites de base craqueados causó un ligero aumento en el número de aberraciones cromosómicas en los ensayos citogenéticos de la médula ósea. TOXICIDAD DEL DESARROLLO: El vapor de combustible diésel no tuvo efectos fetotóxicos ni teratogénicos cuando se expusieron ratas preñadas durante los días 6-15 de embarazo. Se aplicaron gasóleos diariamente a la piel de las ratas prenadas en los días 0-19 de gestación. Todos menos uno (gasóleo ligero de coquificador) causaron fetotoxicidad (aumento de reabsorciones, reducción en el peso de la camada, reducción en el tamaño de la camada) a niveles de dosificación que también fueron tóxicos a la madre.

#### SECCIÓN 12 INFORMACIÓN ECOLÓGICA

#### ECOTOXICIDAD

Se espera que este material sea tóxico para los organismos acuáticos y puede causar efectos adversos a largo plazo en el medio ambiente acuático. Un laboratorio realizó una serie de estudios sobre la toxicidad aguda de 4 muestras de combustible diésel utilizando fracciones acomodadas en agua. La gama de concentraciones efectivas (EC50) o letales (LC50) expresadas en términos de velocidad de carga fue de:

72 hora(s) EC50: 2.6-25 mg/l (Selenastrum capricornutum) 96 hora(s) LC50: 21-210 mg/l (Salmo gairdneri) 48 hora(s) EC50: 20-210 mg/l (Daphnia magna)

#### MOBILIDAD

No Hay Datos Disponibles.

#### PERSISTENCIA Y DEGRADABILIDAD

No se anticipa que esta sustancia sea fácilmente biodegradable. Al ser liberados al medio ambiente los componentes más ligeros del combustible diesel generalmente se evaporarán pero, dependiendo de las

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condiciones ambientales locales (temperatura, viento, mezcla o acción del oleaje, tipo de suelo, etc.), el resto podría llegar a dispersarse en la columna de agua o ser absorbido en el suelo o sedimento. No se esperaría que el combustible diesel fuese fácilmente biodegradable. En una prueba de Strum modificada (método OECD 301B) se registró aproximadamente 40% de biodegradación durante 28 días. Sin embargo, se ha demostrado que casi todos los componentes de hidrocarburos del combustible diesel se degradan en el suelo en presencia de oxígeno. En condiciones anaerobias, tales como las que se encuentran en sedimentos anóxicos, las velocidades de biodegradación son insignificantes. El producto no se ha probado. La declaración se deriva de productos de composición y estructura similares.

#### POTENCIAL DE BIOACUMULARSE

factor de bioconcentración: No Hay Datos Disponibles. octanol/agua, coeficiente de partición: No Hay Datos Disponibles

#### SECCIÓN 13 CONSIDERACIONES ACERCA DE LA ELIMINACIÓN FINAL

Use la sustancia o material para el propósito para el cual estaba destinada o recíclela de ser posible. Este material, si hay que desecharlo, talvez cumpla los criterios que clasifican un desecho peligroso según la definición de leyes y reglamentos internacionales, nacionales o locales.

#### SECCIÓN 14 INFORMACIÓN SOBRE EL TRANSPORTE

La descripción que aparece talvez no sea aplicable a todas las situaciones de los envíos. Consulte el 49CFR, o los correspondientes Reglamentos para Artículos Peligrosos con el fin de buscar requisitos adicionales para la descripción (por ejemplo, el nombre técnico) y requisitos de envío específicos en cuanto a la modalidad o a la cantidad.

Descripción de Embarque del DOT: For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >/= 23 deg C but </= 60 deg C: UN1202, GAS OIL, 3, III; OPTIONAL DISCLOSURE: UN1202, GAS OIL, 3, III, MARINE POLLUTANT (DIESEL FUEL) Optional disclosure per 49 CFR when Flash Point (PM Closed Cup) >/= 38 deg C < 93 deg C per 49 173.150 (f): UN1202, GAS OIL, COMBUSTIBLE LIQUID, III; NON-BULK PACKAGES ARE EXEMPTED FROM THE PROVISIONS OF 49 CFR IN USA JURISDICTIONS Optional disclosure as a GHS Environmental Hazard/Marine Pollutant when Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

Descripción de Envío IMO/IMDG: For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >/= 23 deg C, </= 60 deg C: UN1202, GAS OIL, 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL); OPTIONAL DISCLOSURE: UN1268, PETROLEUM DISTILLATES, N.O.S. (DIESEL FUEL), 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL), 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL), 70 packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

Descripción de embarque ICAO/IATA: For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >/= 23 deg C, </= 60 deg C: UN1202, GAS OIL, 3, III For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

Transporte a granel de acuerdo con el Anexo II de MARPOL 73/78 y el código IBC: No corresponde

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#### SECCIÓN 15 INFORMACIÓN REGULATORIA

#### CATEGORÍAS DE ACUERDO CON LA Sección 311/312 DE LA EPCRA: Efectos Inmediatos (Agudos) en la Salud: sí 2. Efectos Retrasados (Crónicos) en la Salud: sí sí

- Peligro de incendio:
- 4. Peligro por Liberación Súbita de Presión: NO
- 5. Peligro por Reactividad: NO

### LISTAS REGULATORIAS BUSCADAS:

01-1=IARC Grupo 1	03-EPCRA 313
01-2A-IARC Grupo 2A	04-CA Proposition 65
01-2B-IARC Grupo 2B	05-MA RTK
02-NTP Cardnogen	06-NJ RTK
	07-PA RTK

Los siguientes componentes de esta susta	ancia se encuentran en las listas reglamentarias que se indican.
Naftaleno	01-28, 02, 03, 04, 05, 06, 07
Combustible diésel, número 2	07

#### CANTIDADES REPORTABLES CERCLA(RQ)/EPCRA 302 CANTIDADES DE PLANIFICACIÓN DEL UMBRAL(TPQ):

	Componente	Planeación del	Cantidad Reportable (RQ) del Producto
Naftaleno	100 lbs	Ninguno	40000 lbs

#### INVENTARIOS QUÍMICOS:

Todos los componentes cumplen con los siguientes requisitos de inventario de productos químicos: AICS (Australia), DSL (Canadá), EINECS (Union Europea), IECSC (China), KECI (Corea), PICCS (Filipinas), TSCA (Estados Unidos).

#### CLASIFICACIÓN SEGÚN LA LEY DEL DERECHO A LA INFORMACIÓN DE NUEVA JERSEY::

Según la Ley del Derecho-a-saber de L. 1983 Capítulo 315 N.J.S.A. 34:5A-1 et. seq., el producto se debe identificar de la siguiente manera: COMBUSTIBLE DIESEL

### SECCIÓN 16 OTRA INFORMACIÓN

EVALUACIONES D	ELA NFPA: Saluc	d: 1 Inflamabilidad: 2
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Reactividad: 0

EVALUACIONES HMIS: Salud: 2\* Inflamabilidad: 2 Reactividad: 0 (0-Mínimo, 1-Leve, 2-Moderado, 3-Alto, 4-Extremo, PPE:- recomendación del Índice de Equipo de Protección Personal, \*- Indicador del Efecto Crónico). Estos valores se obtienen utilizando las pautas o las evaluaciones publicadas elaboradas por la Asociación Nacional de Protección Contra Incendios (NFPA) o por la Asociación Nacional de Pinturas y Recubrimientos (en lo que respecta a las clasificaciones del Sistema de Identificación de Materiales Peligrosos (HMIS)).

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DIESEL FUEL No. 2 SDS: 6894

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Número(s) de Producto(s) Adicional(es): 203408, 203410, 203413, 203417, 203431, 203436, 203437,
203441, 203443, 203447, 203449, 203450, 220122, 225114, 225115, 225150, 266176, 270000, 270005,
270030, 270031, 270032, 270033, 270034, 270040, 270041, 270042, 270043, 270044, 270045, 270046,
270047, 270048, 270049, 270050, 270051, 270052, 270053, 270054, 270058, 270059, 270060, 270062,
270063, 270064, 270065, 270068, 270069, 270070, 270081, 270082, 270083, 270084, 270085, 270086,
270087, 270088, 270089, 270090, 270091, 270094, 270095, 270096, 270100, 270101, 270102, 270103,
270104, 270105, 270106, 270107, 270108, 270109, 270110, 270111, 270112, 270113, 270114, 270115,
270116, 270117, 270118, 270119, 270120, 270121, 270122, 270123, 270124, 271006, 272006, 272007,
272008, 272009, 272010, 272011, 272012, 272013, 272093, 272102, 272126, 272129, 272130, 272131,
272152, 272185, 272190, 272195, 272593, 272601, 272602, 272693, 272793, 273003, 273030, 273053,
275000
DECLADACIÓN DE DEVISIÓN: Esta envisión actualiza las siguientes seguinas de esta Usia de Dates de

DECLARACIÓN DE REVISIÓN: Esta revisión actualiza las siguientes secciones de esta Hoja de Datos de Seguridad (SDS): 2,3,4,12,16

Fecha de revisión: MAYO 07, 2015

#### ABREVIATURAS QUE PUEDEN HABER SIDO UTILIZADAS EN ESTE DOCUMENTO:

_	
TLV - Valor Limite Umbrai	TWA - Tiempo Promedio Ponderado
STEL - Límite de Exposición a Corto Plazo	PEL - Limite Permisible de Exposición
GHS - Sistema mundialmente armonizado	CAS - Número del Servicio de Abstractos Químicos
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Hoja de Datos de Seguridad
HMIS - Sistema de información sobre materiales peligrosos	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - Nuevo Limite de Exposición Química	EPA - Agencia de Protección Ambiental
SCBA - Aparato de respiración autónoma	

Preparados de acuerdo con el 29 CFR 1910.1200 (2012) por Chevron Energy Technology Company, 6001 Bollinger Canyon Road San Ramon, CA 94583.

La anterior información se basa en los datos que conocemos y que se cree eran correctos en la fecha de la presente comunicación. Ya que esta información se puede aplicar en condiciones que están fuera de nuestro control y con las cuales talvez no estemos familiarizados y en vista de que los datos que se hayan publicado posteriormente a la fecha de la presente talvez sugieran modificaciones a la información, no asumimos responsabilidad alguna por los resultados de su uso. Esta información se suministra a condición de que la persona que la reciba tome su propia determinación sobre la idoneidad de la sustancia o material para su propósito particular.

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## APPENDIX VI - Premium Gasoline Fact Sheet <sup>11</sup>

# Hoja de Datos de Seguridad



SECCIÓN 1 IDENTIFICACIÓN DEL PRODUCTO Y LA COMPAÑÍA

## CHEVRON and TEXACO PREMIUM UNLEADED GASOLINES

Uso del Producto: Combustible Número(s) de Productos: CPS201019 [Busque Números de Productos Adicionales en la sección 16] Sinónimos: Calco Premium Gasoline, Chevron Premium Unleaded Gasoline, Chevron Supreme Plus Unleaded Gasoline, Chevron Supreme Unleaded Gasoline, Gasolines, Automotive, Texaco Power Premium Unleaded Gasoline Identificación de la compañía Chevron Products Company Marketing, MSDS Coordinator 6001 Bollinger Canyon Road San Ramon, CA 94583 United States of America Respuesta a emergencia de transportación

CHEMTREC: (800) 424-9300 or (703) 527-3887 Emergencia Médica Centro de Información de Emergencia de Chevron: Localizado en los Estados Unidos de América. Se aceptan llamadas internacionales por cobrar. (800) 231-0623 o (510) 231-0623 Información sobre el Producto Solicitudes de MSDS: http://www.chevron.com/contact Información Técnica: (510) 242-5357

NOTAS ESPECIALES: Esta Hoja de Datos de Seguridad de Materiales (MSDS) aplica a: toda la gasolina para motores.

#### SECCIÓN 2 IDENTIFICACIÓN DE RIESGOS

CLASIFICACIÓN: Líquido inflamable: Categoría 1. Tóxico por aspiración: Categoría 1. Carcinógeno: Categoría 1A. Tóxico para órganos diana (exposición reiterada): Categoría 1. Irritación ocular: Categoría 2A. Mutágeno de células germinales: Categoría 1B. Irritación de la piel: Categoría 2. Tóxico reproductivo (para el desarrollo): Categoría 2. Tóxico para órganos diana (sistema nervioso central): Categoría 3. Tóxico agudo de medios acuáticos: Categoría 2. Tóxico crónico de medios acuáticos: Categoría 2.



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<sup>&</sup>lt;sup>11</sup> SDS Gasolina – Fuente - CHEVRON

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Palabra señal: Peligro

Peligros físicos: Líquido y vapor extremadamente inflamables.

Peligros para la salud: Puede ser mortal si se ingiere y entra en las vías respiratorias. Puede provocar defectos genéticos. Puede provocar cáncer. Causa una irritación dérmica. Causa una irritación ocular grave. Se sospecha que daña al feto. Puede causar somnolencia o mareos.

Peligros ambientales: Tóxico para la vida acuática. Tóxico para la vida acuática con efectos de larga duración.

Órganos objetivos: Causa daño a los órganos (Sangre/Órganos hematopoyéticos) por exposición prolongada o repetida.

#### DECLARACIONES DE ADVERTENCIA

General: Mantenga lejos del alcance de los niños. Lea la etiqueta antes de usar.

Prevención: Obtenga instrucciones especiales antes de usar. No lo manipule hasta haber leído y entendido todas las instrucciones de seguridad. Mantenga alejado del calor, las chispas, las llamas abiertas y las superficies calientes. – No fumar. Conecte el recipiente y el equipo receptor a tierra y entre sí. Use sólo herramientas que no generen chispas. Tome medidas de precaución contra descargas electrostáticas. Mantenga el recipiente herméticamente cerrado. Use aparatos eléctricos/de ventilación/de iluminación/equipos a prueba de explosión. No respire polvo/humo/gas/neblina/vapores/atomizado. Evite respirar polvo/humo/gas/neblina/vapores/atomizado. Use solamente en exteriores o en zonas bien ventiladas. Use guantes y vestimenta protectores y protección ocular y facial. Use equipo de protección personal como sea requerido. No coma ni beba ni fume mientras usa este producto. Lávese minuciosamente después de manipularlo. Evite pérdidas al medio ambiente. Respuesta: SI SE INHALA: Lleve a la persona al aire libre y manténgala en una posición confortable para

la respiración. SI SE DEPOSITA EN LOS OJOS: Enjuague cuidadosamente con agua por varios minutos. Saque los lentes de contacto, de estar presentes y sea fácil hacerlo. Continúe enjuagando. Si persiste una irritación ocular: Obtenga consejo/atención médica. SI SE DEPOSITA SOBRE LA PIEL: Lávese con abundante agua y jabón. Si se manifiesta una irritación en la piel: Obtenga consejo/atención médica. Sáquese la ropa contaminada y lávela antes de volver a usarla. SI SE DEPOSITA SOBRE LA PIEL: Lávese con abundante agua y jabón. Si se manifiesta una irritación en la piel: Obtenga consejo/atención médica. Sáquese la ropa contaminada y lávela antes de volver a usarla. SI SE DEPOSITA SOBRE LA PIEL (o el pelo): Sáquese inmediatamente la ropa contaminada y lávela antes de volver a usarla. Enjuáguese la piel con agua/ducha. SI SE INGIERE: Llame de inmediato a un centro de venenos o a un médico. NO induzca el vómito. Llame a un centro de venenos o a un médico si no se siente bien. Obtenga consejo/atención médica si no se siente bien. SI se ha expuesto o está preocupado: Obtenga consejo/atención médica. En caso de incendio: Use los medios especificados en la Hoja de Datos de Seguridad para la extinción. Tratamiento específico (véase Notas al Médico en esta etiqueta). Recoja el derrame.

Almacenamiento: Almacene en un lugar bien ventilado. Mantenga fresco. Mantenga el recipiente herméticamente cerrado. Almacene bajo llave.

Desecho: Deseche los contenidos y/o el recipiente de acuerdo con los reglamentos municipales/regionales/nacionales/internacionales que correspondan.

### PELIGROS NO CLASIFICADOS DE OTRO MODO: Not Applicable

CANTIDAD

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Gasolina	86290-81-5	100 %vol/vol
Tolueno (metilbenceno)	108-88-3	1 - 35 %vol/vol
xileno (contiene los isómeros o-, m-, y p-xileno en cantidades variables)	1330-20-7	1 - 15 %vol/vol
pentano, 2,2,4-trimetil- (isooctano)	540-84-1	1 - 13 %vol/vol
Butano	106-97-8	1 - 12 %vol/vol
Etanol	64-17-5	0 - 10 %vol/vol
Benceno	71-43-2	0.1 - 4.9 %vol/vol
Hexano	110-54-3	1 - 5 %vol/vol
Heptano	142-82-5	1 - 4 %vol/vol
Etilbenceno	100-41-4	0.1 - 3 %vol/vol
Ciclohexano	110-82-7	1 - 3 %vol/vol
Naftaleno	91-20-3	0.1 - 2 %vol/vol
Metilciclohexano	108-87-2	1 - 2 %vol/vol

La EPA (Agencia de Protección del Medio Ambiente de los EE.UU.) considera que la gasolina para motores es una mezcla según la Ley para el Control de Sustancias Tóxicas (TSCA por sus siglas en inglés). Las corrientes de combustibles de refinería que se utilizan para mezclar la gasolina de motor aparecen todas en el Inventario de Sustancias Químicas de la TSCA. El número CAS que corresponde a la gasolina de motor mezclada en refinería es el 86290-81-5. Las especificaciones para productos con respecto a la gasolina de motor que se venda en su zona dependerán de los reglamentos federales, provinciales o estatales que correspondan.

### SECCIÓN 4 MEDIDAS DE PRIMEROS AUXILIOS

#### Descripción de las medidas de primeros auxilios

Ojo: Lávese los ojos con agua inmediatamente manteniendo al mismo tiempo los párpados abiertos. Quítese los lentes de contacto, si los trae puestos, después del lavado inicial y siga echándose agua por lo menos durante 15 minutos. Procure atención médica inmediatamente.

Piel: Lávese la piel con agua inmediatamente y quítese las ropas y los zapatos contaminados. Procure atención médica si sobreviene algún síntoma. Para quitarse la sustancia de la piel, use agua y jabón. Deseche la ropa y los zapatos contaminados o límpielos a cabalidad antes de volverlos a usar.

Ingestión: Si se traga, procure atención médica inmediatamente. No induzca el vómito. Nunca le dé nada por la boca a una persona inconsciente.

Inhalación: Mueva a la persona expuesta al aire fresco. Si no hay respiración, dé respiración artificial. Si la respiración se dificulta, proporcione oxígeno. Si las dificultades de respiración continúan o se desarrollan otros síntomas, obtenga atención médica.

#### Síntomas y efectos más importantes, tanto graves como retrasados EFECTOS INMEDIATOS PARA LA SALUD

Ojo: El contacto con los ojos causa irritación severa. Entre los síntomas se pueden encontrar dolor, lagrimeo, enrojecimiento, inflamación y dificultades visuales.

Piel: El contacto con la piel causa irritación. Entre los síntomas se pueden encontrar dolor, picazón, decoloración, inflamación y formación de ampollas. El contacto con la piel puede causar secamiento o desgrase de la piel. No se espera que el contacto con la piel cause una respuesta alérgica en la piel.

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Ingestión: Sumamente tóxico; pueder ser fatal si se traga. A causa de su baja viscosidad, esta sustancia puede entrar directamente a los pulmones si se traga o al vomitarse posteriormente. Una vez que está en los pulmones, es muy difícil de extraer y puede causar lesiones severas o muerte. Puede irritar la boca, la garganta y el estómago. Entre los síntomas se pueden encontrar dolor, náusea, vómitos y diarrea. Inhalación: La respiración excesiva o prolongada de esta sustancia puede causar efectos en el sistema nervioso central. Entre los efectos causados al sistema nervioso se pueden encontrar dolor de cabeza, aturdimiento, náusea, vómitos, debilidad, pérdida de coordinación, visión borrosa, somnolencia, confusión y desorientación. A exposiciones extremas, entre los efectos causados al sistema nervioso se pueden encontrar depresión respiratoria, temblores y convulsiones, pérdida del conocimiento, coma y muerte.

#### EFECTOS RETARDADOS SOBRE LA SALUD O DE OTRO TIPO:

Defectos sobre la Reproducción y el Nacimiento: Contiene material que puede causar daño al nonato si se inhala arriba del límite de exposición recomendado.

Cáncer: La exposición repetida o prolongada a esta sustancia puede causar cáncer. La gasolina ha sido clasificada como Carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC). Los gases de escape completo de motor de gasolina han sido clasificados como un carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC). Contiene benceno, que ha sido clasificado como carcinógeno por el Programa Nacional de Toxicología (NTP) de EE.UU. y como carcinógeno del Grupo 1 (carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC).

Contiene naftaleno, que ha sido clasificado como un carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Investigaciones sobre el Cáncer (IARC). Contiene etilbenceno que ha sido clasificado como Carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC).

Toxicidad Genética: Contiene sustancia que puede causar daño genético hereditario en base a datos provenientes de animales.

Örganos Blanco: Contiene material que puede causar daños al siguiente órgano u órganos por inhalación repetida en concentraciones superiores al límite de exposición recomendado:Sangre-Órganos Productores de Sangre El riesgo depende de la duración y nivel de exposición. Busque más información en la sección 11.

#### Indicación de atención médica inmediata y tratamiento especial necesario Nota para los Médicos: La ingestión de este producto o el vomitarla posteriormente puede resultar en la aspiración de líquido compuesto de hidrocarburos líquidos lígeros, lo cual puede causar neumonitis.

#### SECCIÓN 5 MEDIDAS PARA LA EXTINCIÓN DE INCENDIOS

MEDIOS EXTINTORES: Use niebla de agua, espuma, materiales químicos secos o dióxido de carbono (CO2) para extinguir las llamas.

Riesgos de incendio fuera de lo común: Busque en la sección 7 el modo adecuado de manejo y almacenamiento.

#### PROTECCIÓN DE LOS BOMBEROS:

Instrucciones para la Extinción de Incendios: Con respecto a los fuegos que tengan que ver con esta sustancia, no entre ningún espacio de incendio cerrado o confinado sin haberse puesto los adecuados equipos protectores, incluyendo aparato de respiración autónoma.

Productos de la Combustión: Depende mucho de las condiciones de combustión. Se puede desarrollar una mezcla compleja de sólidos, líquidos y gases aerotransportados, incluyendo monóxido de carbono, dióxido de carbono y compuestos orgánicos no identificados al combustionarse esta sustancia.

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#### SECCIÓN 6 MEDIDAS QUE DEBEN ADOPTARSE EN CASO DE LIBERACIÓN ACCIDENTAL

Medidas de Protección: Elimine todas las fuentes de ignición cerca del derrame o del vapor despedido. Si la sustancia se propaga al área de trabajo, evacúela inmediatamente. Vigile el área con el indicador de gas combustible.

Manejo de Derrames: Detenga la fuente de la emisión si lo puede hacer sin correr riesgo. Contenga la emisión para evitar la contaminación adicional de los terrenos, las aguas superficiales y las aguas subterráneas. Limpie el derrame lo más pronto posible, observando las precauciones que aparecen en Controles de Exposición-Protección Personal. Use las técnicas que correspondan tales como aplicar materiales absorbentes no combustibles o bombeo. Todos los equipos que se usen para manejar el producto deben tener conexión a tierra. Se puede usar espuma supresora de vapores para reducir éstos. Use herramientas limpias que no echan chispas para recolectar el material absorbido. Cuando sea factible y apropiado, quite y retire la tierra contaminada. Coloque los materiales contaminados en recipientes desechables y deséchelos observando los reglamentos correspondientes.

Reportes: Reporte los derrames a las autoridades locales y/o al Centro de Respuesta Nacional de la Guardia Costera de los EE.UU. al número de teléfono (800) 424-8802 según se exija o corresponda.

#### SECCIÓN 7 MANEJO Y ALMACENAMIENTO

Información sobre su Manejo en General: Evite contaminar la tierra o echar esta sustancia en los sistemas de desagüe o en los cuerpos de agua.

Medidas Precautorias: Este producto presenta un elevadísimo riesgo de incendio. El líquido se evapora muy rápidamente, incluso a bajas temperaturas y forma vapor (emanaciones) que pueden prender fuego e inflamarse con una violencia explosiva. El vapor invisible se propaga fácilmente y lo pueden encender diversas fuentes de ignición tales como luces piloto, equipos de soldadura y motores e interruptores eléctricos. Nunca sague gasolina chupándola por un sifón con la boca.

No lo guarde en recipientes abiertos o sin rotular. LEA Y OBSERVE TODAS LAS PRECAUCIONES EN LA ETIQUETA DEL PRODUCTO. No deje que le caiga en los ojos, en la piel o en la ropa. No deje que le caiga en los ojos. No lo pruebe ni lo trague. No respire vapores ni emanaciones . Lávese bien después de manipularlo. Manténgalo fuera del alcance de los niños.

Riesgo Estático: La descarga electroestática se puede acumular y crear una condición peligrosa cuando se maneja este material. Para minimizar este peligro, la unión y conexión a tierra puede ser necesaria, pero pueden ser insuficientes por sí solos. Revise todas las operaciones que tengan el potencial de generar y acumular una carga electroestática y/o una atmósfera inflamable (incluyendo las operaciones de llenado del tanque y recipiente, salpicaduras al llenar, limpieza del tanque, muestreos, calibración, cambios de carga, filtrado, mezclado, agitación y camión al vacío) y utilice los procedimientos mitigantes adecuados.

Advertencias Acerca de los Recipientes: El recipiente no está diseñado para contener presión. No use presión para vaciar el recipiente porque éste se puede quebrar o romper con fuerza explosiva. Los recipientes vacíos contienen residuos del producto (sólido, líquido y/o vapor) y pueden ser peligrosos. No presurice, corte, suelde de manera alguna, taladre, esmerile, triture ni exponga a dichos recipientes al calor, llamas, chispas, electricidad estática ni a ninguna otra fuente de ignición. Pueden explotar y causar lesiones o muerte. Los recipientes vacíos se deben vaciar escurriéndolos por completo, taponarlos de manera adecuada y devolverlos prontamente a un reacondicionador de bidones, o desecharlos como es debido.

Información sobre su Almacenamiento en General: NO LO/LA USE NI GUARDE cerca del calor, chispas, llamas ni superficies calientes. SOLAMENTE EN ÁREA BIEN VENTILADA. Mantenga el recipiente cerrado cuando no lo esté usando.

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### SECCIÓN 8 CONTROLES DE EXPOSICIÓN/PROTECCIÓN PERSONAL

### CONSIDERACIONES GENERALES:

Considere los peligros en potencia de este material (ver Sección 3), límites de exposión aplicables, actividades laborales, y otras sustancias en el centro de trabajo al diseñar controles tecnológicos y seleccionar los equipos protectores personales. Si los controles tecnológicos o las prácticas laborales no son adecuados para impedir la exposisicón a niveles nocivos de este material, se recomiendan los equipos protectores personales que aparecen a continuación. El usuario debe leer y entender todas las instrucciones y limitaciones que se suministran con los equipos ya que por lo general se provee protección durante un tiempo limitado o bajo ciertas circunstancias.

### CONTROLES DE INGENIERÍA:

Use barreras de protección para encerrar el lugar donde se realiza el proceso, ventilación local de extracción y demás controles tecnológicos para mantener los niveles aerotransportados por debajo de los límites recomendados de exposición.

### EQUIPO DE PROTECCIÓN PERSONAL

Protección de ojos/cara: Póngase equipos protectores para evitar contacto con los ojos. La selección de equipos protectores puede incluir gafas de seguridad, gafas de protección química, pantallas faciales o una combinación de estos equipos dependiendo de las operaciones laborales que se lleven a cabo.

Protección de la Piel: Póngase ropas protectoras para evitar el contacto con la piel. La selección de ropas protectoras puede include guantes, delantal, botas y protección facial completa dependiendo de las operaciones que se realicen. Los materiales que se sugieren para guantes protectores incluyen: Polietileno clorado (o polietileno clorosulfonado), Hule de Nitrilo, Poliuretano, Viton.

Protección Respiratoria: Determine si las concentraciones aerotransportadas están por debajo de los límites de exposición ocupacional recomendados para la jurisdicción donde se use. Si están por encima de éstos, póngase un respirador aprobado que le dé adecuada protección contra esta sustancia, tal como: Respirador con Purificación de Aire para Vapores Orgánicos.

Cuando se usa como combustible, esta sustancia puede producir monóxido de carbono en los gases de escape. Determine si las concentraciones aerotransportadas están por debajo del límite de exposición ocupacional para el monóxido de carbono. Si no lo están, póngase un respirador aprobado de suministro de aire a presión positiva.

Use un respirador de suministro de aire a presión positiva en circunstancias en las que los respiradores de purificación de aire tal vez no provean protección adecuada.

Componente	Agencia	TWA	STEL	Limite Tope	Notación
Gasolina	ACGIH	300 ppm (weight)	500 ppm (weight)	-	A3
Tolueno (metilbenceno)	ACGIH	50 ppm (weight)		-	Piel A4
Tolueno (metilbenceno)	OSHA Z-2	200 ppm (weight)	-	300 ppm (weight)	-
xlieno (contiene los isómeros o-, m-, y p-xlieno en cantidades variables)	ACGIH	100 ppm (weight)	150 ppm (weight)	-	A4
dieno (contiene los isómeros o-, m-,	OSHA Z-1	435 mg/m3		-	-

#### Límites de Exposición Ocupacional:

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y p-xlieno en cantidades variables)					
pentano, 2,2,4-trimetil- (isooctano)	OSHA Z-1	2350 mg/m3		-	-
pentano, 2,2,4-trimetil- (isooctano)	ACGIH	300 ppm (weight)	-	-	-
Butano	ACGIH	1000 ppm (weight)	-	-	-
Etanol	ACGIH	1000 ppm (weight)	-	-	A4 A3
Etanol	OSHA Z-1	1900 mg/m3		-	-
Benceno	ACGIH	.5 ppm (weight)	2.5 ppm (weight)	-	Plei A1 Plei
Benceno	OSHA SRS	1 ppm (weight)	5 ppm (weight)	-	-
Benceno	OSHA Z-2	10 ppm (weight)	-	25 ppm (weight)	-
Benceno	CVX	1 ppm (weight)	5 ppm (weight)	-	-
Hexano	ACGIH	50 ppm (weight)	-	-	Piel
Hexano	OSHA Z-1	1800 mg/m3			-
Heptano	ACGIH	400 ppm (weight)	500 ppm (weight)	-	-
Heptano	OSHA Z-1	2000 mg/m3		-	-
Etilbenceno	ACGIH	20 ppm (weight)	125 ppm (weight)	-	A3
Etilbenceno	OSHA Z-1	435 mg/m3			-
Ciclohexano	ACGIH	100 ppm (weight)	-	-	-
Ciclohexano	OSHA Z-1	1050 mg/m3			-
Naftaleno	ACGIH	10 ppm (weight)	15 ppm (weight)	-	Plei
Naftaleno	OSHA Z-1	50 mg/m3			-
Meticiciohexano	ACGIH	400 ppm (weight)	-	-	-
Meticiciohexano Consultar la Norma del Benceno i	OSHA Z-1	2000 mg/m3			-

Consultar la Norma del Benceno de la OSHA (29 CFR 1910.1028) y la Tabla Z-2 en lo que respecta a la capacitación detallada, el monitoreo de la exposición, la protección respiratoria y los requisitos de vigilancia médica antes de usar este producto. Consulte a las autoridades locales para averiguar cuáles son los valores adecuados.

SECCIÓN 9 PROPIEDADES FÍSICAS Y QUÍMICAS

Atención: los datos que aparecen a continuación son valores típicos y no constituyen una especificación.

Color: De incoloro a amarillo

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Estado físico: Líquido Olor: Olor del petróleo Umbral del olor: No Hay Datos Disponibles pH: No pertinente Presión de vapor: 5 psi (siglas en inglés de "presión por pulgada cuadrada") - 15 psi (siglas en inglés de "presión por pulgada cuadrada") (Típico) @ 37.8 °C (100 °F) Densidad de vapor (Aire = 1): 3 - 4 (Tipico) Punto de ebullición inicial: 27.2°C (81°F) - 204.4°C (400°F) (Típico) Solubilidad: Insoluble en agua; miscible con la mayoría de los disolventes. Punto de congelación: No pertinente Punto de fusión: No pertinente Gravedad específica: 0.7 g/ml - 0.8 g/ml @ 15.6°C (60.1°F) (Típico) Viscosidad: <1 SUS @ 37.8°C (100°F) Tasa de evaporación: No Hay Datos Disponibles Temperatura de descomposición: No Hay Datos Disponibles octanol/agua, coeficiente de partición: 2 - 7

PROPIEDADES INFLAMABLES: Inflamabilidad (sólido, gas): No Hay Datos Disponibles

Punto de Inflamación: (Taza Cerrada Tagliabue ASTM D56) < 45 °C (< 49 °F) Autoignición: > 280 °C (> 536 °F) Límites de Inflamabilidad (Explosivos) (% por volumen en aire): Inferior: 1.4 Superior: 7.6

### SECCIÓN 10 ESTABILIDAD Y REACTIVIDAD

Reactividad: Puede reaccionar con los ácidos fuertes o los agentes oxidantes potentes, tales como cloratos, nitratos, peróxidos, etc. Estabilidad Química: Esta sustancia se considera estable en condiciones de temperatura y presión anticipadas para su almacenaje y manipulación y condiciones normales de ambiente. Incompatibilidad con Otros Materiales: No pertinente Productos Peligrosos de la Descomposición: No se conoce ninguno/a (No se anticipa ninguno/a) Polimerización Peligrosa: No experimentará polimerización peligrosa.

SECCIÓN 11 INFORMACIÓN TOXICOLÓGICA

Información sobre efectos toxicológicos Irritación/Daño grave en el ojo: El riesgo de irritación ocular corresponde a la evaluación de datos con respecto a componentes de los productos.

Irritación/Corrosión de la piel: Para una exposición de 4 horas, el Índice de Irritación Primaria (PII) en los conejos es: 4.8/8.0.

Sensibilización de la Piel: Este material no causó reacciones de sensibilización de la piel en una prueba de Buehler en cobayos.

Toxicidad Dérmica Aguda: LD50: >3.75g/kg (conejo).

Toxicidad Oral Aguda: LD50: >5 ml/kg (rata)

Toxicidad por Inhalación Aguda: 4 hora(s) LD50: >20000mg/m3 (rata). Estimación de toxicidad aguda: No determinado

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Mutagenia de células reproductoras: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

Carcinogenia: Consulte la INFORMACIÓN DE TOXICOLOGÍA ADICIONAL a continuación. La gasolina ha sido clasificada como Carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC). Los gases de escape completo de motor de gasolina han sido clasificados como un carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC). Contiene benceno, que ha sido clasificado como carcinógeno por el Programa Nacional de Toxicología (NTP) de EE.UU. y como carcinógeno del Grupo 1 (carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC).

Contiene naftaleno, que ha sido clasificado como un carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Investigaciones sobre el Cáncer (IARC). Contiene etilbenceno que ha sido clasificado como Carcinógeno del Grupo 2B (posiblemente carcinogénico para los humanos) por el Centro de Internacional de Investigaciones sobre el Cáncer (IARC).

Toxicidad reproductiva: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

Toxicidad específica para el órgano objetivo: exposición única: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

Toxicidad específica para el órgano objetivo: exposición reiterada: La evaluación de riesgos estuvo basada en datos de los componentes o de una sustancia similar.

### INFORMACIÓN ADICIONAL DE TOXICOLOGÍA:

\*T\_88 A - Gasolines are highly volatile and can produce significant concentrations of vapor at ambient temperatures. Gasoline vapor is heavier than air and at high concentrations may accumulate in confined spaces to present both safety and health hazards. When vapor exposures are low, or short duration and infrequent, such as during refueling and tanker loading/unloading, neither total hydrocarbon nor components such as benzene are likely to result in any adverse health effects. In situations such as accidents or spills where exposure to gasoline vapor is potentially high, attention should be paid to potential toxic effects of specific components. Information about specific components in gasoline can be found in Sections 2/3, 8 and 15 of this MSDS. More detailed information on the health hazards of specific gasoline components can be obtained calling the Chevron Emergency Information Center (see Section 1 for phone numbers).\* El uso inadecuado patológico de solventes y gasolina, que involucran exposición prolongada y repetida a concentraciones altas de vapor es una exposición significativa sobre la que hay muchos reportes en la literatura médica. Como con otros solventes, el abuso persistente que involucra exposiciones prolongadas y repetidas a concentraciones altas de vapor se ha reportado que resultan en daño al sistema nervioso central y eventualmente, la muerte. En un estudio en el que diez voluntarios humanos se expusieron durante 30 minutos a concentraciones de vapor de gasolina de aproximadamente 200, 500 o 1000 ppm, el único efecto significativo observado fue irritación de los ojos, basado en evaluaciones tanto subjetivas como objetivas. La inhalación de por vida de gasolina sin plomo completamente vaporizada a 2056 ppm causó un aumento en los tumores del hígado de ratones hembra y cáncer en los riñones en ratas macho. La International Agency for Research on Cancer (IARC), en su revisión de 1988 de los riesgos carcinógenos de la gasolina indicó que debido a los estudios de epidemiología publicados, no incluyó ningún dato de exposición, solamente se revisaron ocupaciones en donde pudo haber ocurrido exposición a la gasolina. Estos incluyeron a encargados de gasolineras y mecánicos de automóviles. La IARC también indicó que no hubo oportunidad de separar los efectos de los productos de combustión de aquéllos de la gasolina por sí sola. Aún cuando la IARC asignó a la

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gasolina una clasificación general de grupo 2B, i.e. posible carcinógeno para humanos, esto se basó en limitada evidencia con animales experimentales más evidencia soporte que incluye la presencia de benceno en la gasolina. La evidencia real de la carcinogenicidad en humanos se consideró inadecuada. MUTAGENICIDAD: La gasolina no resultó ser mutagénica, tanto con activación como sin ella, en el ensayo de Ames (Salmonella typhimurium), Saccharamyces cerevisesae, o en los ensayos de linfoma de ratón. Además, no se indujeron mutaciones puntiformes en los linfocitos humanos. La gasolina no resultó ser mutagénica cuando se le puso a prueba con el ensayo de dominante letal de ratón. La administración de gasolina a las ratas no causó aberraciones cromosómicas en las células de la médula ósea. EPIDEMIOLOGÍA: Para explorar los efectos en la salud de obreros potencialmente expuestos al vapor de gasolinas en los sectores de la comercialización y distribución de la industria del petróleo, el American Petroleum Institute patrocinó un estudio por cohorte de mortalidad (Publicación 4555), un estudio anidado de control de casos (Publicación 4551) y un estudio de evaluación de la exposición (Publicación 4552). La historias de exposición a la gasolina se reconstruyeron para crear un cohorte de más de 18,000 empleados de cuatro compañías para el período entre 1946 y 1985. Los resultados del estudio de mortalidad por cohorte indicaron que no aumentó la tasa de mortalidad, ni a causa del cáncer renal ni de leucemia, entre los empleados de mercadeo y de distribución marina que estuvieron expuestos a la gasolina en la industria del petróleo al compararlos con la población general. Más importante aun, sobre la base de comparaciones internas, no hubo asociación de la mortalidad debida al cáncer renal o a la leucemia con los diversos índices de exposición a la gasolina. En particular, ni la duración del empleo, la duración de la exposición, la edad a la primera exposición, año de la primera exposición, categoría laboral, exposición acumulativa, frecuencia de la exposición pico ni la intensidad promedio de exposición tuvieron efecto alguno sobre la mortalidad debida al cáncer renal o a leucemia. Los resultados del estudio anidado con control de casos confirmaron los hallazgos del estudio original con cohorte. O sea, que la exposición a la gasolina a los niveles experimentados por este cohorte de trabajadores en el sector de la distribución no constituye un factor de riesgo significativo para la leucemia (de todos los tipos celulares), la leucemia mieloide agua, el cáncer renal ni para el mieloma múltiple. \*T\_31G - This product contains cyclohexane. Cyclohexane primarily affects the central nervous systems of laboratory animals and humans. Acute or prolonged inhalation of cyclohexane at levels below the recommended exposure limits does not result in toxic effects while acute exposures to levels above these recommended limits can cause reversible central nervous system depression. Prolonged exposures of laboratory animals to high levels (up to low thousands of parts per million) have also caused reversible effects which included hyperactivity, diminished response to stimuli, and adaptive liver changes while very high levels (high thousands of parts per million) were fatal. No developmental effects were seen in rats or rabbits following exposures of up to 7000 ppm cyclohexane. No reproductive effects occurred in rats, although postnatal pup growth was reduced at 7000 ppm in a similar manner as observed in the parental animals. Cyclohexane has not been shown to be mutagenic in several in vitro and in vivo assays and has not produced tumors in several dermal application long-term bioassays. Based on these results and the lack of any mutagenic or genotoxic metabolites, cyclohexane is not expected to be mutagenic or genotoxic. Following dermal exposure, cyclohexane is rapidly absorbed, metabolized, and excreted." \*T 31B - This product contains naphthalene. GENERAL TOXICITY: Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase. Laboratory animals given repeated oral doses of naphthalene have developed cataracts. REPRODUCTIVE TOXICITY AND BIRTH DEFECTS: Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta. GENETIC TOXICITY: Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests.CARCINOGENICITY: In a study conducted by the National Toxicology Program (NTP), mice exposed to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in

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both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.\* \*T 38 - This product contains ethanol (ethyl alcohol).

Chronic ingestion of ethanol can damage the liver, nervous system and heart. Chronic heavy consumption of alcoholic beverages has been associated with an increased risk of cancer. Ingestion of ethanol during pregnancy can cause human birth defects such as fetal alcohol syndrome." \*T\_A18 - This product contains butane.

An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.\* Este producto contiene n-hexano.TOXICIDAD SOBRE LOS ÓRGANOS BLANCO: Se ha demostrado que la ingestión prolongada o repetida, el contacto con la piel y la respiración de vapores de n-hexano producen neuropatía periférica. La recuperación varía desde la ausencia de recuperación hasta la recuperación completa dependiendo de la severidad del daño a los nervios. Se ha demostrado que la exposición a 1000 ppm de n-hexano 18 horas/día durante 61 días causa daño testicular en las ratas. Sin embargo, cuando las ratas fueron expuestas a concentraciones más altas durante períodos diarios más cortos (10,000 ppm 6 horas/día, 5 días a la semana durante 13 semanas), no se observaron lesiones testiculares.CARCINOGENICIDAD: La exposición crónica al hexano comercial (52% de n-hexano) a una concentración de 9000 ppm no resultó Carcinogénica para las ratas ni los ratones machos, pero sí produjo una frecuencia más alta de tumores hepáticos en los ratones hembras. No se observaron efectos carcinogénicos en los ratones hembras expuestos a 900 ó 3000 ppm de hexano ni en los ratones machos. La importancia que pueden tener para los humanos estos tumores hepáticos inducidos por el hexano en ratones está en tela de juicio.TOXICIDAD GENÉTICA: El n-hexano produjo aberraciones cromosómicas en la médula ósea de ratas, pero produjo resultados negativos en las pruebas de AMES y del linforna de ratón. Este producto contiene tolueno. TOXICIDAD GENERAL: Los efectos principales de la exposición al tolueno en animales y humanos afectan el sistema nervioso central. Las personas que abusan de disolventes, quienes típicamente inhalan altas concentraciones (miles de ppm) durante breves períodos, además de experimentar irritación de las vías respiratorias, a menudo padecen efectos permanentes en el sistema nervioso central, entre los que se encuentran temblores, marcha tambaleante, deterioro del habla, pérdida auditiva, visual y alteraciones del tejido cerebral. La muerte en algunos abusadores de disolventes ha sido atribuida a arritmias cardiacas, que parecen haber sido desencadenadas por la acción de la epinefrina sobre el tejido cardiaco sensibilizado por los disolventes. Aunque se han observado efectos sobre el hígado y los riñones de algunos abusadores de solventes, los resultados de las pruebas con tolueno en animales no respaldan que éstos sean órganos blanco primarios. AUDICIÓN: Los humanos que estuvieron expuestos ocupacionalmente a concentraciones de tolueno tan bajas incluso como 100 ppm durante períodos prolongados han experimentado déficits auditivos. La pérdida auditiva demostrada en pruebas electrofisiológicas y conductuales así como por observación del daño estructural de las células pilas cocleares, se presentó en animales de laboratorio expuestos al tolueno. También parece ser que la exposición al tolueno y el ruido pueden interactuar para producir déficits auditivos.VISIÓN DEL COLOR: En un solo estudio de trabajadores expuestos al tolueno en concentraciones por debajo de 50 ppm, se reportaron pequeñas disminuciones en la capacidad para distinguir los colores en porción azul-amarillo del espectro en obreros del sexo femenino. Este efecto, que debería ser investigado más ampliamente, es muy sutil, y no es probable que lo hayan advertido las personas sometidas a las pruebas. TOXICIDAD REPRODUCTIVA Y/O DEL DESARROLLO: El tolueno puede causar retraso mental y/o del crecimiento en los hijos de abusadoras de disolventes que inhalen tolueno directamente (generalmente en concentraciones de miles de ppm) cuando están embarazadas. El tolueno causó retraso del crecimiento en ratas y conejos cuando se les administraron dosis que resultaron tóxicas para las madres. En las ratas, las concentraciones de hasta 5000 ppm no causaron defectos congénitos. No se observaron efectos en las crías a dosis que no causaron toxicidad a las madres. El nivel de exposición al cual no se observaron efectos (""Nivel al Cual No Se Observaron Efectos", o ""NOEL" por sus siglas en inglés) es de 750 ppm en las ratas y 500 ppm en los conejos. Este producto contiene xileno.TOXICIDAD AGUDA: Los efectos primarios de la exposición al xileno en animales y humanos recaen sobre el sistema nervioso central. Además, en algunos

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individuos, la exposición al xileno puede sensibilizar el tejido cardiaco a la epinefrina, lo cual puede precipitar una fibrilación ventricular fatal TOXICIDAD DEL DESARROLLO: Se ha reportado que el xileno causa toxicidad del desarrollo en ratas y ratones expuestos por inhalación durante el embarazo. Los efectos advertidos consistieron en retraso del desarrollo y variaciones esqueléticas menores. Además, cuando las ratonas preñadas fueron expuestas por ingestión a un nivel que mató a casi un tercio del grupo de prueba, hubo letalidad (reabsorciones) así como malformaciones (principalmente paladar hendido). Como el xileno puede cruzar la placenta, quizá sea apropiado impedir que haya exposición durante el embarazo. \*T\_A34A - GENETIC TOXICITY/CARCINOGENICITY: Xylene was not genotoxic in several mutagenicity testing assays including the Ames test. In a cancer study sponsored by the National Toxicology Program (NTP), technical grade xylene gave no evidence of carcinogenicity in rats or mice dosed daily for two years. HEARING: Mixed xylenes have been shown to cause measurable hearing loss in rats exposed to 800 ppm in the air for 14 hours per day for six weeks. Exposure to 1450 ppm xylene for 8 hours caused hearing loss while exposure to 1700 ppm for 4 hours did not. Although no information is available for lower concentrations, other chemicals that cause hearing loss in rats at relatively high concentrations do not cause hearing loss in rats at low concentrations. Worker exposure to xylenes at the permissible exposure limit (100 ppm, time-weighted average) is not expected to cause hearing loss.\* Este producto contiene benceno. TOXICIDAD GENETICA/CÁNCER: Se ha asociado la respiración repetida o prolongada del vapor de benceno con el desarrollo de daños cromosómicos en animales experimentales y de diversas patologías de la sangre en los seres humanos que van desde la anemia aplástica hasta la leucemia (una forma de cáncer). Todas estas enfermedades pueden ser fatales. En algunas personas, la exposición al benceno puede sensibilizar el tejido cardíaco a la epinefrina, lo cual puede precipitar una fibrilación ventricular fatal. TOXICIDAD REPRODUCTIVA Y DEL DESARROLLO : No se ha demostrado que ocurran defectos congénitos en animales de laboratorio en estado de gestación expuestos a dosis que no le son tóxicas a la madre. Sin embargo, se ha observado alguna evidencia de toxicidad fetal tal como retraso del desarrollo físico a esos niveles. La información que existe sobre los efectos del benceno en los embarazos humanos es inadecuada pero se ha establecido que el benceno puede cruzar la placenta humana. OCUPACIONAL: La Norma de la OSHA para el Benceno (29 CFR 1910.1028) contiene requisitos detallados en cuanto a la capacitación, supervisión de la exposición, protección respiratoria y vigilancia médica motivadas por el nivel de exposición. Remítase a la Norma de la OSHA antes de usar este producto. Este producto contiene etilbenceno. \*T\_34 - BIRTH DEFECTS AND REPRODUCTION: Ethylbenzene is not expected to cause birth defects or

other developmental effects based on well-conducted studies in rabbits and rats sponsored by NIOSH. Other studies in rats and mice which reported urinary tract malformations have many deficiencies and have limited usefulness in evaluating human risk. Reproductive effects are not expected based on a NIOSH study of fertility, and lack of effects observed for sperm counts and motility, estrous cycle and pathology of reproductive organs following repeated exposures. HEARING: Statistically significant losses in outer hair cells (OHCs) were observed in rats exposed to >=200 ppm ethylbenzene, 6 hours/day, 6 days/week for 13 weeks, after an 8-week recovery period. Following longer exposure, inner hair cells losses were also observed in rats exposed to >= 600 ppm ethylbenzene, but only occasionally in rats exposed to 400 ppm. The Lowest Observed Adverse Effect Level in rats (LOAEL) was 200 ppm for losses of OHCs. Guinea pigs exposed to ethylbenzene at 2,500 ppm, 6 hours/day for 5 days did not show auditory deficits or losses in OHCs. The concentration of ethylbenzene used in the JP-8 study was approximately 10 ppm.\* \*T\_34A -GENETIC TOXICITY: Ethylbenzene tested negative in the bacterial mutation test. Chinese Hamster Ovary (CHO) cell in vitro assay, sister chromatid exchange assay and an unscheduled DNA synthesis assay. Conflicting results have been reported for the mouse lymphoma cell assay. Increased micronuclei were reported in an in vitro Syrian hamster embryo cell assay; however, two in vivo micronuclei studies in mice were negative. In Syrian hamster embryo cells in vitro, cell transformation was observed at 7 days of incubation but not at 24 hours. Based on these results, ethylbenzene is not expected to be mutagenic or clastogenic. CARCINOGENICITY: In studies conducted by the National Toxicology Program, rats and mice were exposed to ethylbenzene at 25, 250 and 750 ppm for six hours per day, five days per week for 103 weeks. In rats exposed to 750 ppm, the incidence of kidney tubule hyperplasia and tumors was increased. Testicular tumors develop spontaneously in nearly all rats if allowed to complete their natural life span; in this study, the development of these tumors appeared to be enhanced in male rats exposed to 750 ppm. In

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mice, the incidences of lung tumors in males and liver tumors in females exposed to 750 ppm were increased as compared to control mice but were within the range of incidences observed historically in control mice. Other liver effects were observed in male mice exposed to 250 and 750 ppm. The incidences of hyperplasia were increased in the pituitary gland in female mice at 250 and 750 ppm and in the thyroid in male and female mice at 750 ppm.\*

### SECCIÓN 12 INFORMACIÓN ECOLÓGICA

### ECOTOXICIDAD

Se espera que este material sea tóxico para los organismos acuáticos y puede causar efectos adversos a largo plazo en el medio ambiente acuático.

96 hora(s) LC50: 2.7 mg/l (Oncorhynchus mykiss) 96 hora(s) LC50: 1.8 mg/l (Mysidopsis bahia) 96 hora(s) LC50: 8.3 mg/l (Cyprinodon variegatus) 48 hora(s) LC50: 3.0 mg/l (Daphnia magna)

### MOBILIDAD

No Hay Datos Disponibles.

### PERSISTENCIA Y DEGRADABILIDAD

Se anticipa que esta sustancia sea fácilmente biodegradable. Después de un derrame, los componentes más volátiles de la gasolina se pierden rápidamente, con la concurrente disolución de éstos y demás constituyentes en el agua. Factores tales como las condiciones ambientales locales (temperatura, viento, acción de mezcla o del oleaje, tipo de suelos, etc.), fotooxidación, biodegradación y adsorción a sedimentos suspendidos, pueden contribuir a la alteración por exposición a la intemperie de la gasolina derramada. La acuosolubilidad de la gasolina sin plomo no oxigenada, en base al análisis del benceno, tolueno, etilbenceno + xilenos y naftaleno, se ha reportado ser 112 mg/l. También hay datos disponibles de solubilidad sobre componentes de la gasolina considerados individualmente.

#### POTENCIAL DE BIOACUMULARSE

factor de bioconcentración: No Hay Datos Disponibles. octanol/agua, coeficiente de partición: 2 - 7

### SECCIÓN 13 CONSIDERACIONES ACERCA DE LA ELIMINACIÓN FINAL

Use la sustancia o material para el propósito para el cual estaba destinada o recíclela de ser posible. Este material, si hay que desecharlo, talvez cumpla los criterios que clasifican un desecho peligroso según la definición de leyes y reglamentos internacionales, nacionales o locales. Verificar la reglamentación gubernamental y con las autoridades locales sobre la manera aprobada para desechar este material.

### SECCIÓN 14 INFORMACIÓN SOBRE EL TRANSPORTE

La descripción que aparece talvez no sea aplicable a todas las situaciones de los envíos. Consulte el 49CFR, o los correspondientes Reglamentos para Artículos Peligrosos con el fin de buscar requisitos adicionales para la descripción (por ejemplo, el nombre técnico) y requisitos de envío específicos en cuanto a la modalidad o a la cantidad.

Descripción de Embarque del DOT: UN1203, GASOLINE, 3, II; OPTIONAL DISCLOSURE: UN1203, GASOLINE, 3, II, MARINE POLLUTANT (GASOLINE)

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Descripción de Envío IMO/IMDG: UN1203, GASOLINE, 3, II, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (GASOLINE)

Descripción de embarque ICAO/IATA: UN1203, GASOLINE, 3, II

Transporte a granel de acuerdo con el Anexo II de MARPOL 73/78 y el código IBC: No corresponde

SECCIÓN 15 INFORMACIÓN REGULATORIA	
CATEGORÍAS DE ACUERDO CON LA Sección 311 (Agudos) en la Salud: SÍ	/312 DE LA EPCRA: 1. Efectos Inmediatos
3. Peligro 4. Peligro	Retrasados (Crónicos) en la Salud: Sí de incendio: Sí por Liberación Súbita de Presión: NO por Reactividad: NO
LISTAS REGULATORIAS BUSCADAS:	
01-1=IARC Grupo 1 03=EPCRA 313	
01-2A-IARC Grupo 2A 04-CA Propositio	n 65
01-2B-IARC Grupo 2B 05-MA RTK	
02=NTP Carcinogen 06=NJ RTK	
07-PA RTK	
Los siguientes componentes de esta sustancia se en Naftaleno Ciclohexano Heptano Tolueno (metilbenceno) Etilbenceno Metilciclohexano Hexano Butano xileno (contiene los isómeros o-, m-, y p-xileno en	01-28, 02, 03, 04, 05, 06, 07 03, 05, 06, 07 05, 06, 07 03, 04, 05, 06, 07 01-28, 03, 04, 05, 06, 07 05, 06, 07 03, 05, 06, 07 05, 06, 07
cantidades variables) pentano, 2,2,4-trimetil- (isooctano) Etanol Gasolina Benceno	05, 06, 07 01-1, 02, 04, 05, 06, 07 01-28, 06, 07 01-1, 02, 03, 04, 05, 06, 07

### CANTIDADES REPORTABLES CERCLA(RQ)/EPCRA 302 CANTIDADES DE PLANIFICACIÓN DEL UMBRAL(TPQ):

Componente	Cantidad Reportable del Componente		del	Cantidad Reportable (RQ) del Producto
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		Componente	
Benceno	10 lbs	Ninguno	186 lbs
Ciclohexano	1000 lbs	Ninguno	34188 lbs
Etilbenceno	1000 lbs	Ninguno	34964 lbs
Hexano	5000 lbs	Ninguno	129149 lbs
Naftaleno	100 lbs	Ninguno	4000 lbs
pentano, 2,2,4-trimetil- (isooctano)	1000 lbs	Ninguno	6270 lbs
Tolueno (metilbenceno)	1000 lbs	Ninguno	2627 lbs
xileno (contiene los isómeros o-, m-, y p-xileno en cantidades variables)	100 lbs	Ninguno	649 lbs

### INVENTARIOS QUÍMICOS:

Todos los componentes cumplen con los siguientes requisitos de inventario de productos químicos: AICS (Australia), DSL (Canadá), EINECS (Union Europea), ENCS (Japón), IECSC (China), KECI (Corea), PICCS (Filipinas), TSCA (Estados Unidos).

enceión	AC OTD		ción
SECCION	16 UIR/	A INFORMA	CION

EVALUACIONES DE LA NFPA: Salud: 1 Inflamabilidad: 4 Reactividad: 0

EVALUACIONES HMIS: Salud: 2\* Inflamabilidad: 4 Reactividad: 0 (0-Mínimo, 1-Leve, 2-Moderado, 3-Alto, 4-Extremo, PPE:- recomendación del Índice de Equipo de Protección Personal, \*- Indicador del Efecto Crónico). Estos valores se obtienen utilizando las pautas o las evaluaciones publicadas elaboradas por la Asociación Nacional de Protección Contra Incendios (NFPA) o por la Asociación Nacional de Pinturas y Recubrimientos (en lo que respecta a las clasificaciones del Sistema de Identificación de Materiales Peligrosos (HMIS)).

Número(s) de Producto(s) Adicional(es): CPS201024, CPS201050, CPS201051, CPS201058,
CPS201060, CPS201061, CPS201066, CPS201068, CPS201069, CPS201071, CPS201072, CPS201078,
CPS201081, CPS201084, CPS201085, CPS201088, CPS201091, CPS201092, CPS201094, CPS201096,
CPS201097, CPS201098, CPS201101, CPS201103, CPS201114, CPS201117, CPS201193, CPS201213,
CPS201214, CPS201215, CPS201233, CPS201234, CPS201235, CPS201263, CPS201264, CPS201265,
CPS201274, CPS201275, CPS201276, CPS201283, CPS201284, CPS201285, CPS201293, CPS201294,
CPS201295, CPS201853, CPS201854, CPS201861, CPS201862, CPS201863, CPS204006, CPS204007,
CPS204008, CPS204009, CPS204014, CPS204015, CPS204026, CPS204027, CPS204050, CPS204051,
CPS204074, CPS204075, CPS204092, CPS204093, CPS204108, CPS204109, CPS204120, CPS204121,
CPS204144, CPS204145, CPS204168, CPS204169, CPS204192, CPS204193, CPS204204, CPS204205,
CPS204211, CPS204216, CPS204217, CPS204228, CPS204229, CPS204252, CPS204253, CPS204276,
CPS204277, CPS204294, CPS204295, CPS204327, CPS204328, CPS204329, CPS204351, CPS204353,
CPS204355, CPS204357, CPS204362, CPS204363, CPS204368, CPS204369, CPS204374, CPS204375,
CPS204380, CPS204381, CPS204386, CPS204387, CPS204392, CPS204393, CPS204398, CPS204399,
CPS204404, CPS204405, CPS204410, CPS204411, CPS204416, CPS204417, CPS204422, CPS204423,
CPS204428, CPS204429, CPS204434, CPS204435, CPS204440, CPS204441, CPS204443, CPS204447,
CPS204451, CPS204455, CPS204459, CPS204463, CPS204470, CPS204471, CPS204488, CPS204489,
CPS204506, CPS204507, CPS204524, CPS204525, CPS204542, CPS204543, CPS204560, CPS204561,
CPS204578. CPS204579. CPS204598. CPS204597. CPS204614. CPS204615. CPS204632. CPS204633.
CPS204650, CPS204651, CPS204668, CPS204669, CPS204683, CPS204694, CPS204695, CPS204700,
CPS204701, CPS204706, CPS204707, CPS204712, CPS204713, CPS204725, CPS204726, CPS204731,
CPS204732, CPS204741, CPS241766
0-320-32, 0-320-141, 0-3241100

DECLARACIÓN DE REVISIÓN: Esta revisión actualiza las siguientes secciones de esta Hoja de Datos de Seguridad (SDS): 1-16

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# **Contingency Plan for Spills of Fuels and** Harmful and Potentially Hazardous Substances

# ROATAN CRUISE **TERMINAL**

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### Fecha de revisión: MARZO 18, 2015

### ABREVIATURAS QUE PUEDEN HABER SIDO UTILIZADAS EN ESTE DOCUMENTO:

WA - Tiempo Promedio Ponderado
PEL - Limite Permisible de Exposición
CAS - Número del Servicio de Abstractos Químicos
MO/IMDG - International Maritime Dangerous Goods
ode
SDS - Hoja de Datos de Seguridad
FPA - National Fire Protection Association (USA)
ITP - National Toxicology Program (USA)
OSHA - Occupational Safety and Health Administration
- •
PA - Agencia de Protección Ambiental

Preparados de acuerdo con el 29 CFR 1910.1200 (2012) por Chevron Energy Technology Company, 6001 Bollinger Canyon Road San Ramon, CA 94583.

La anterior información se basa en los datos que conocemos y que se cree eran correctos en la fecha de la presente comunicación. Ya que esta información se puede aplicar en condiciones que están fuera de nuestro control y con las cuales talvez no estemos familiarizados y en vista de que los datos que se hayan publicado posteriormente a la fecha de la presente talvez sugieran modificaciones a la información, no asumimos responsabilidad alguna por los resultados de su uso. Esta información se suministra a condición de que la persona que la reciba tome su propia determinación sobre la idoneidad de la sustancia o material para su propósito particular.

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# APPENDIX VII - Safety Data Sheet for Sodium Hypochlorite in Solution <sup>12</sup>



<sup>&</sup>lt;sup>12</sup> SDS Hipoclorito de Sodio – Source – RC Química



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous

# **ROATAN CRUISE** TERMINAL

Substances	
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SEC	CIÓN 5 - MEDII	DAS DE LUCHA CONTRA INCENDIOS
Medios de extinción adecuados:		Usar un método adecuado de extinción a los alrededores.
Medios de extinción no adecuados:		No aplica.
Riesgos especiales en caso	de incendio:	Por sí solo no es inflamable. Pero el fuego de los alrededores puede calentar la solución y generar gases
		tóxicos además de inflar el recipiente y corre el riesgo
P		de explosión.
Equipo de protección pers	onal:	Usar equipo de protección completo contra incendios. Y equipo de protección contra gases.
SECCIÓN 6 -	MEDIDAS A T	OMAR EN CASO DE DERRÂME ACCIDENTAL
Precaución personal:	Equipo	de protección personal: mascarilla, guates, lentes de
•	segurida	d, botas de hule y ropa adecuada para evitar el contacto
Precauciones para el med	con la pie	tir el ingreso a fuentes de agua de consumo humano.
ambiente:	o No perm	tar el ingreso a fuences de agua de consumo numano.
Métodos y procedimientos		el área. Usar equipo de protección personal completo.
limpieza:		n abundante agua en caso de que el derrame sea leve, de rio absorba el derrame con material inerte (arena, arcilla,
		ede reducir desechos con agentes de bisulfitos o sal
		luego deseche como sea permitido por las autoridades
	locales.	
SE	CCIÓN 7 - MAN	IPULACIÓN Y ALMACENAMIENTO
Manipulación:		debido equipo de protección. Deseche los envases al roducto, ya que este al entrar en contacto con algunos
		tos podría presentar una reacción violenta. Al momento
		producto asegúrese de que no sean áreas con mala
	ventilación, y tracto respira	a que a altas concentraciones podría causar daños en el
Almacenamiento:		lugares frescos y secos. Alejado de agentes incompatibles
		reductores. Mantenga fuera del alcance de los niños.
SECCIÓN	. CONTROL D	E EXPOSICIÓN/PROTECCIÓN PERSONAL
DECION	- CONTROLE	E EAT OSICIONY NO LICCION TEASONAL
Ventilación:		recintos ventilados adecuadamente, ya sea ventilación
Protección respiratoria:	normal o mec	ánica. filtro para vapores de cloro, en lugares con mala
r totección respiratoria;	ventilación.	nuo para vapores de cioro, en jugares con mara
Ropa y equipo protector:		oa de nitrilo o caucho, para evitar contacto directo con la
Duotocelán do ciore	piel. Cofee do comv	rided more entities along a more calculated to a
Protección de ojos:	Galas de segu	ridad para evitar riesgos por salpicaduras.
SECCIÓN	9 - PROPIEDA	ADES FISICOQUÍMICAS DEL PRODUCTO:
Aspecto:	Líquido	
Color:		re de impurezas
Olor:	Clore	
pH: Densidad (15 – 20°C):	12.5 - 13.5 1.10 - 1.20	a /ml.
Delisidad [15 - 20 CJ;	1.10 - 1.201	5/1112



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous

# **ROATAN CRUISE** TERMINAL

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Temperatu	ra de councion.			
Solubilidad	en agua:	Soluble	BILIDAD Y REACTIV	7DAD
de derivado Incompatib	ición peligrosa	directamente en Cuando es caler hipocloroso y áci	la concentración del p stado, puede emitir do clorhídrico.	tacto con el aire, esto afecta roducto. vapores tóxicos de cloro ácido etales oxidables, ácidos y jabones.
Pointeriza			RMACIÓN TOXICOLÓ	CICA
		ECCION 11 - INPU	KHACION IOAICOL	JUICA
TOXICIDAD	puede llegar			en al alto grado de corrosión que o en el tracto respiratorio si inhala
LD50(Oral, 1	ediente activo al rata): Aproximada 10mg produce int			
.ouelo, 010.	Aving produce ut		FORMACIÓN ECOLÓG	IICA
	que ingrese produ vo para la vida acu	ucto concentrado a	proven speak sent for the local source for the figure	que por su alta alcalinidad, podría
	SECCI	ÓN 13 - CONSIDER	ACIÓN COBRE SU DI	enoglatión
on material	a. El personal que inerte. Lavar el ri	e lo recoja debe da emanente con abu	e contar el debido equ indante agua controla	iípo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con
con material agentes com autoridades l	ea. El personal que inerte. Lavar el ri o bisulfitos o solu ocales. SE	e lo recoja debe de emanente con abu iciones de sal ferr ECCIÓN 14 - INFOI	e contar el debido equ indante agua controla osa. Luego diluya. De RMACIÓN DE TRANSI	uípo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las
con material agentes com autoridades l	ea. El personal que inerte. Lavar el n o bisulfitos o solu ocales. SE ON DEL DOT: (8)	e lo recoja debe da emanente con abu iciones de sal ferr CCIÓN 14 - INFOI Líquido Corrosivo	e contar el debido equ indante agua controla rosa. Luego diluya. De RMACIÓN DE TRANSI	uípo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las PORTE
con material agentes com autoridades l CLASIFICACI	a. El personal que inerte. Lavar el ri o bisulfitos o solu ocales. SE ON DEL DOT: (8)	e lo recoja debe da emanente con abu iciones de sal ferr CCIÓN 14 - INFOI Líquido Corrosivo	e contar el debido equ indante agua controla osa. Luego diluya. De RMACIÓN DE TRANSI	uípo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las PORTE
con material agentes com autoridades l CLASIFICACI	a. El personal que inerte. Lavar el ri o bisulfitos o solu ocales. SE ON DEL DOT: (8)	e lo recoja debe de emanente con abu iciones de sal ferr ECCIÓN 14 - INFO Líquido Corrosivo ECCIÓN 15 - INFO	e contar el debido equ indante agua controla rosa. Luego diluya. De RMACIÓN DE TRANSI ORMACIÓN REGULAT	uipo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las PORTE YORIA
con material agentes com autoridades l CLASIFICACI Ninguna det	a. El personal que inerte. Lavar el ri o bisulfitos o solu ocales. SE ON DEL DOT: (8) S erminada.	e lo recoja debe de emanente con abu aciones de sal ferr ECCIÓN 14 - INFO Líquido Corrosivo ECCIÓN 15 - INFO SECCIÓN 15 - INFO	e contar el debido equ indante agua controla osa. Luego diluya. De RMACIÓN DE TRANSI D DRMACIÓN REGULAT OTRA INFORMACIÓ?	uipo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las PORTE YORIA
con material agentes com autoridades l CLASIFICACI Ninguna deto La información o CONTROL DE C2	ea. El personal que inerte. Lavar el ri o bisulfitos o solu ocales. SE ON DEL DOT: (8) Serminada.	e lo recoja debe de emanente con abu aciones de sal ferr ECCIÓN 14 - INFOI Líquido Corrosivo ECCIÓN 15 - INFO SECCIÓN 15 - INFO SECCIÓN 16 -	e contar el debido equ indante agua controla osa. Luego diluya. De RMACIÓN DE TRANSI O RMACIÓN REGULAT OTRA INFORMACIÓP de para el uso del producto d o correcto o incorrecto que se	uipo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las PORTE YORIA
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con material agentes com autoridades l CLASIFICACI Ninguna deto La información o CONTROL DE C2 usuario la interp PREPARADO DEPARTAM TELÉFONOS GUATEMAI Bomberos: Centro de Texicología:	a. El personal que inerte. Lavar el ri o bisulfitos o solu ocales. SE ON DEL DOT: (8) Serminada. SulDAD no se haor respo retación y aplicación de O POR: ENTO DE CONTRO S DE EMERGENCIA A 122, 123, 911 (502) 2251-3560 (502) 2230-0807 1-801-0029832	e lo recoja debe de emanente con abu aciones de sal ferr ECCIÓN 14 - INFOI Líquido Corrosivo ECCIÓN 15 - INFO SECCIÓN 15 - INFO SECCIÓN 15 - INFO SECCIÓN 16 - es correcta y proporciata anasbie por el posible us la información proporcion L DE CALIDAD I: EL SALVADOR Bomberos: Centro de Toxicología:	e contar el debido equ indante agua controla iosa. Luego diluya. De RMACIÓN DE TRANSI ORMACIÓN REGULAT OTRA INFORMACIÓP de para el uso del producto d o corrocto o incorrocto que se noda. TE cont 911.(503)25557300 (503) 2205-71-97	nipo de seguridad. Recoja el líquido ndo el pH. Reduzca el desecho con eseche como sea permitido por las PORTE ORIA Verta lestrata, sin embarga, el DEPARTAMENTO DE el dé a dicha información. Es obligación del EL: (502) 2381-0202 Ext. 117 traldecalidad@rcquimica.com HONDURAS Bomberos/ Emergencias 911 handuras@rcquimica.com

X	Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances			ROATAN CRUISE TERMINAL	
	Prepared by	Reviewed by	Approved by	Date	Review
Mahoganf Baif	INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

# APPENDIX VIII - Muriatic Acid Safety Data Sheet <sup>13</sup>



<sup>&</sup>lt;sup>13</sup> SDS Acido Muriático – Source – RC Química



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous

# **ROATAN CRUISE** TERMINAL

	Substant			
Prepared by	Reviewed by	Approved by	Date	Review
INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

SECCIÓN 5 - MEDIDAS DE LUCHA CONTRA INCENDIOS					
Medios de extinción adecuados: Medios de extinción no adecuados: Riesgos especiales en caso de incendio: Equipo de protección personal:		Polvo seco, espuma, CO <sub>2</sub> . Neblina de agua. N.D. No es un producto inflamable, pero se pueden producir gases tóxicos si se encuentra en medio de un incendio. Usar equipo de protección autónomo, y ropa adecuada para evitar contacto directo con la piel. Retirar al personal que no cuente con el EPP adecuado.			
SECCIÓ	N 6 - MEDIDAS A	TOMAR EN CASO DE DERRAME ACCIDENTAL			
	como d medio Realiza	EPP para su manipulación, no manipular cerca de metales así e materiales oxidantes. r un manejo adecuado para evitar el derrame y			
ambiente: contamin del agua, Métodos y procedimientos de Construi limpieza: que se metálico etc.), hu posterio locales. I La neut (provoca que está *Todo el		inación de corrientes de agua. Baja considerablemente el pH a, lo que puede ser fatal para la vida acuática. air un dique localizado, con trapos u otro material inerte del pueda disponer inmediatamente (siempre que no sea o). Absorber el derrame con material inerte (arena, arcilla, uego colocarlo en un contenedor para neutralizarlo y ormente desecharlo como sea permitido por las autoridades . En cantidades menores, se puede lavar con abundante agua. utralización se puede realizar con bicarbonato de sodio cará abundante espuma, cuando la espuma cese, significa á neutralizado], soda ash o soda cáustica en solución. el personal que no cuente con el EPP adecuado, debe ser o del lugar.			
	SECCIÓN 7 - MA	NIPULACIÓN Y ALMACENAMIENTO			
- tr	ansportar el envas	ase no tenga fugas. No sacudir el envase. En el momento de e, no debe ser lanzado de un operario a otro. Y utilizar el			
Almacenamiento: Al	macenar en lugare	i personal para manipular el producto. s frescos, secos y seguros. Mantenga fuera del alcance de los cerca de productos oxidantes y el envase bien cerrado.			
SECC	IÓN 8 - CONTROL	DE EXPOSICIÓN/PROTECCIÓN PERSONAL			
Ventilación:	el producto	e exista una ventilación adecuada en el lugar donde se usará porque puede existir acumulación de vapores.			
Protección respirato Ropa y equipo protec	ria: Utilizar la n ctor: Guantes pa hule.	ascarilla adecuada (gases), se debe utilizar la <i>full-face.</i> ra evitar el contacto con la piel, gabacha de vinil, botas de			
Protección de ojos:		guridad para evitar riesgos por salpicaduras. Si y sólo si se la máscara <i>full-face, no se</i> requerirá el uso de lentes.			
Medidas de higiene:		n con agua y jabón después de utilizar el producto y antes de			



# Contingency Plan for Spills of Fuels and Harmful and Potentially Hazardous Substances

# **ROATAN CRUISE** TERMINAL

	Substant			
Prepared by	Reviewed by	Approved by	Date	Review
INTERMARIS	ROATAN CRUISE TERMINAL	GENERAL DIRECTORATE OF THE MERCHANT MARINE	December-2019	1

	SECCIÓN	9 - PROPIEDAD	ES FISICOQUÍMICAS DE	A. FRODUCIU.
Aspecto:	Líquido		pH:	0-1
Color:	Claro a amaril	ia	Densidad (15 - 20°C):	1.16 - 1.18 g/mL
Olor:	No aplica		Solubilidad en agua:	Completa
	the second s	SECCION 10 - E	STABILIDAD Y REACTIV	
Estabilida	d Química:	4. 4	Estable en condiciones n	
		de derivados:	Puede liberar vapores tó Oxidantes, halógenos, pe	
Incompati	nidad: ción pelígrosa:		No ocurrirá.	reioratos, perutados
ronment2	cion pengrosa.		No ocar rira.	
			FORMACIÓN TOXICOLO	
La inhalació	n de los vapores	puede causar t	os, inflamación de la na	riz y garganta. La ingestión puede
causar un de	olor inmediato y	quemaduras en l	a boca y tracto gastroint	estinal, la ingestión puede ser fatal.
			quemaduras graves. El o	contacto con los ojos puede causar
quemaduras	; graves y daños j	permanentes.		
		SECCIÓN 12 -	INFORMACIÓN ECOLÓG	ICA
Es fatal para				iblicos y fuentes de agua.
11.1.14-2	SECC	IÓN 13 - CONSIL	DERACIÓN SOBRE SU DI	SPOSICIÓN
posterior de	esecho como sea	permitido por l	las autoridades locales. E	in envase para su neutralización y En cantidades pequeñas puede ser
lavado con a agua.	bundante agua, a	unque se recom	ienda neutralizar cualqui	er cantidad antes de ser lavada con
	-	-		
agua.	5	ECCIÓN 14 - IN	ienda neutralizar cualqui FORMACIÓN DE TRANSI	
agua.	-	ECCIÓN 14 - IN		
agua.	5	ECCIÓN 14 - IN erial Corrosivo)		PORTE
agua.	s del DOT: 8 (Mat	ECCIÓN 14 - IN erial Corrosivo)	FORMACIÓN DE TRANS	PORTE
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	Elaborado por	Revisado por	Aprobado por	Fecha	Revisión
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# **APPENDIX IX - Roatan Cruise Terminal Environmental Management System**

# ROATÁN CRUISE TERMINAL ENVIRONMENTAL MANAGEMENT SYSTEM

# ROATÁN CRUISE TERMINAL ENVIRONMENTAL POLICY

**Roatán Cruise Terminal** is located in a fairly unique location characterized by a very sensitive environment; being one of its major attractions that the port is close to Bay Islands' coral reef ecosystem which is part of the Mesoamerican Barrier Reef System: the Atlantic Ocean's largest reef and the second largest barrier reef of the world.

Consequently **Roatán Cruise Terminal** is committed to a sustainable management of the environment. The cruise port will contribute to meeting the needs of the present generation while preserving the environment for future generations to come, by carrying out its operations making every effort to avoid altering or damaging existing ecosystems. If despite all these efforts **Roatán Cruise Terminal's** own operations caused any damage to the environment or to any infrastructure in the port's area of influence, **Roatán Cruise Terminal** would be responsible to remediate the damage at its own expense. **Roatán Cruise Terminal** adheres to the following principles: *Compliance* 

**Roatán Cruise Terminal** will make every effort to comply with all current and valid environmental laws and regulations that apply to **Roatán Cruise Terminal** and will implement environmental operating procedures to help ensure compliance. These procedures will be based upon those conditions imposed by all Environmental Licenses granted to **Roatán Cruise Terminal** that are current and valid. (see Annex EP-1 for a list of the conditions and the environmental operating procedures implementing them).

# **Prevention**

**Roatán Cruise Terminal** makes every effort to implement environmental operating procedures designed to prevent activities and/or conditions that could negatively impact the environment.

# Environmental education and awareness raising

**Roatán Cruise Terminal** promotes an Environmental Education and Awareness Raising Program. The general goal of this program is stressing the significance of the Bay Islands' ecosystems and resources. This program is aimed to continue improving environmental behavior in both cruise ship visitors (including crew members) and the local population.

**Roatán Cruise Terminal** has implemented an environmental training program using the Environmental Licenses conditions as the basis in order to enable each employee to carry out those environmental operating procedures of which they are responsible for to undertake.

Continuous improvement

**Roatán Cruise Terminal** has established a system for controlling the implementation of all environmental operating procedures. **Roatán Cruise Terminal** Environmental Management System will be periodically updated.

# ENVIRONMENTAL MANAGEMENT SYSTEM

**Roatán Cruise Terminal** (RCT) Environmental Management System (EMS) is integrated by a set of environmental operating procedures designed to implement RCT's Environmental Policy. Detailed semiannual work plans will be developed for each environmental operating procedure. The environmental operating procedures integrating RCT's EMS are described below:

# SOLID WASTES MANAGEMENT

1. Solid wastes generated by the terminal's operation and management are temporarily disposed in appropriate receptacles conveniently located along Mahogany Bay Cruise Center. New garbage bins with

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recycling motif have been placed strategically throughout the installation, separating cans, plastics and trash.

RCT maintenance collects these wastes and stores them at a designated area which also has separation areas for cans, plastics and trash. Solid wastes are collected daily by the Municipality. Wastes' incineration is not carried out in the facilities.

## WASTEWATER MANAGEMENT

- 2. Dry urinals have been installed in all bathrooms at the Cay. Pending are the urinals at the Plaza which will be installed in the future and properly cleaned and maintained.
- 3. The systematic cleaning of the restaurants' grease traps are controlled by frequent inspections, which are scheduled in the semiannual work plans. Each restaurant should keep records proving that regular grease trap cleaning has been carried out to provide evidence to General Management.
- 4. In general, cooking oil should be disposed of separately in sealed non-recyclable containers or similar and not discharged into the wastewater collection system. Regular inspections will be scheduled in the semiannual work plans to assure tenants' compliance. Each restaurant should keep records proving that this has been carried out to provide evidence to General Management.
- 5. The effluents from the wastewater treatment plant should comply with the Technical Standards Regulating Wastewater discharge into Receiving water bodies and Sewerage Systems. Monthly tests are conducted through a certified laboratory on mainland Honduras for effluent of both plants and reviewed by Health & Sanitation Supervisor for compliance.
- 6. Treatment plant effluents are used for irrigation of surrounding green areas, using the most appropriate irrigation technique consistent with the discharge volume and proper distribution of the irrigation flow, establishing an appropriate leaching field to infiltrate the effluents in the event of an unexpected excess. The effluents are properly disinfected before discharging into the irrigation system.
- 7. The monitoring and control of the wastewater treatment plant's operational parameters (COD, BOD, Total Solids, Sedimentable Solids, Turbidity, Color, Odor, Nitrates, Ammoniacal Nitrogen, Phosphates, Total Phosphate, pH, Oils and Grease and Fecal Coliforms) is conducted twice a year and presented to Secretary of Natural Resources and Environment.
- 8. RCT has implemented an effective preventive as well as corrective maintenance program for the wastewater treatment plant (WWTP). RCT has hired a third party to control both wastewater treatment systems at the Cay and the Plaza, keeping an operator managing the WWTP by filling out daily logs and reporting eventualities.
- 9. Signs should be installed in the area irrigated with reused water, indicating that irrigation is carried out with this kind of water.

### WATER MANAGEMENT

10. Rainwater catchment should be used in order to conserve water.

10.1 Appropriate solids separation/filtering systems as well as disinfection systems have been implemented. Rain filters have been placed throughout the Plaza gutters that duly separate organics from the water collected in the cistern.

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10.2 Roofs, gutters and rainwater collection pipes are cleaned regularly as part of maintenance works of the facilities, especially before the rainy season.

- 11. In all bathrooms and other points of public use of water, signs have been installed indicating that water is not suitable for drinking.
- 12. RCT has developed and implemented an effective preventive as well as corrective maintenance program for the potable water system. The potabilization system includes a 10 micron filter, a 5 micron filter, 2 UV lamps and an automated chlorination system to potabilize the water at the MBCC facility. Water storage tanks are maintained and cleaned on a basis with detergents that do not affect water's organoleptic characteristics. In addition, these tanks are coated with a product certified NSF61 for potable water and they are also checked for its physical conditions.
- 13. The personnel at work during the project's operating stage shall have access to water for human consumption that meets the quality standards set forth in the National Technical Standard for the Quality of Potable Water.
- 14. If drilling a well is required within the project area, RCT shall request the permit for exploitation of groundwater resources to the General Office of Water Resources through SERNA's General Secretariat. In addition, RCT shall submit to SERNA pump test data, and water quality tests conducted by a qualified laboratory. Currently, RCT does not have plans to drill a well and is currently purchasing the water used at its facility.
- 15. The storm water system is appropriately managed. A preventive as well as corrective maintenance program has been established by implementing the following operating procedures:

15.1 Measures have been established to prevent discharges into the storm water collection system of liquids and solid wastes which could pollute storm water and/or create foul odors when the storm water collectors are dry.

15.2 Carries out periodic cleanups of sediments and other organic material that accumulates in the storm water ditches and drainage pipes. Maintenance records are kept by means of a log. Any organic material removed is transformed into compost.

16. RCT cleans and maintains the culverts located under the terminal access road.

## TERRESTRIAL ENVIRONMENT MANAGEMENT

- 17. Spaces allocated as green areas shall be respected and set aside for such purpose. Reforestation of this area has been done only with fast-growing native species. The area surrounding the Treatment Plaza at the Plaza has been reforested with local species that harmonize with the surrounding area, serving as a natural barrier. This area is periodically maintained. The landscape is well maintained to guarantee the survival of the plants integrating the landscape. New areas for reforestation are being chosen and will be worked on biannually.
- 18. For landscape maintenance, only appropriate agrochemical products can be used. RCT has implemented the use of a garlic based organic product to maintain its gardens.

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- 19. The introduction of domestic animals such as cats and/or dogs is not allowed.
- 20. Disturbing, damaging and /or exploiting terrestrial flora and/or fauna species from within the facility, especially those catalogued as endangered, is not allowed. RCT provides all of their employees a briefing every 6 months regarding respectful treatment of flora and fauna.
- 21. Only taxis and tour buses in good technical conditions are allowed to enter the facilities.

## MANAGEMENT OF THE COASTAL AND MARINE ENVIRONMENTS

- 22. Destroying mangroves in the wetland near the bay will not be permitted under any circumstances. The already implemented RCT's mangrove restoration project is appropriately managed and monitored. New mangroves are to be planted once a year and a follow up will be presented to the SERNA.
- 23. Disturbing, damaging, and/ or exploiting species from the aquatic flora and/or fauna present in the zone is not allowed. Those species catalogued as endangered, should be especially controlled to prevent those activities.
- 24. Fishing from the pier and from the vessels docked in the pier is not allowed.
- 25. Only properly authorized small painting and/or scraping works on Cruise Ships while docked at the pier should be carried out. These works should strictly follow the environmental operational procedures established in Annex PS.
- 26. In washing a Ship is authorized by RCT, only clean water should be used for this purpose.
- 27. Lighting of the pier should always be in working order.
- 28. RCT has requested and been authorized permission by the General Directorate of the Merchant Marine to install buoys and to operate the dock, guaranteeing all stipulations or recommendations that this institution requested are complied with.
- 29. It is strictly forbidden to pollute water bodies within the RCT's area of influence with domestic solid wastes, oils, machinery grease or other pollutants generated by RCT.
- 30. Systematic clean-ups of the coastal area in RCT are carried out, especially in the immediate area of influence of RCT. Volunteers are involved in these clean-ups when required. Special days like Earth Day, should be used as motivation to involve crew members if appropriate.
- 31. Underwater clean-ups in the pier's area of influence should be carried out at least twice a year: at the end of high season and before high season. Volunteer divers should/could be involved.
- 32. In general no servicing of any type will be allowed to vessels docked in the pier. More specifically:

32.1 No provisioning of any type including the use of containers or trailers

32.2 No waste of any kind is to be removed from either the dock side or water side to a barge

32.3 No garbage removal of any type from either the dock side or water side to a barge.

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32.4 No Grey Water removal from either the dock side or water side to a barge.

32.5 No Sewage/Black water removal from either the dock side or water side to a barge.

32.6 No Oil and Oily Substances removal from either the dock side or water side to a barge.

32.7 No refueling either by dock side or by a vessel or barge on the water side.

32.8 No vehicles of any type should be allowed to access the dock, unless specifically authorized by the General Manager.

32.9 No water servicing of any type allowed while docked at the pier.

- 33. RCT has assigned a pilot boat to oversee cruise ship maneuvers within Dixon Cove bay to avoid accidents or collisions capable of damaging the ecosystem in the vicinity of the bay.
- 34. RCT has set up and maintained the approved navigational aid system for incoming and outgoing cruise ships.
- 35. RCT would assist Government authorities in the development of a baseline to be used for declaring Cordelia Bank a Protected Marine Area, integrating all zoning and boundary and guideline issues into an area management to be subsequently executed by local authorities. Given its size, which covers approximately 12 km<sup>2</sup>, the Cordelia Bank is an area of influence for the only two national interest projects: the Royal Caribean and Carnival Lines piers. Accordingly, these two projects will, together with the Government, seek synergies toward attaining protected area status for the Cordelia Bank.

### FIRE CONTINGENCY PLAN

36. The Contingency Plan has been approved by the Fire Brigade in Roatan. It reflects the strategies and activities that must be executed in case of an eventuality.

Consider possible disasters:

- a) Fires
- b) Hurricanes and floods
- c) Earthquakes
- d) Oil spills
- e) Landslides

The Fire Brigade of Roatan has done the following activities:

- a) Revise and approve the Contingency Plan elaborated by RCT.
- b) Inspection of the facilities with the purpose of guaranteeing the existence of the prevention and fire contingencies.
- c) RCT annually requests a record from the Fire Brigade which states compliance with all measures requested.

### OIL SPILL CONTINGENCY PLAN

## Facilities

- 37. If temporary storage of machinery fuel is required, the following guidelines:
  - a) The fuel is stored in holding tanks equipped with containment berms. These containment berms should be water-tight and their walls should be sufficiently high to hold 110 % of the storage tank volume.

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- b) Absorbent material is kept at hand for use in the event of a spill or leak. Any used, hydrocarbon-containing absorbent material shall be disposed on at a location approved by the Roatán Municipality.
- 38. It is strictly forbidden to intentionally spill hydrocarbons on the ground (pier area or in the vicinity of the beach) or in water bodies.

### Vessels

All Cruise Ships comply with the discharge limits established by MARPOL for bilge waters and have pollution prevention equipment for machinery space bilges of ships approved in accordance with International Maritime Organization guidelines and specifications for pollution prevention equipment for machinery space bilges of ships. Consequently oil and oily waters cannot be possibly discharged while in port. Only accidental oil spills can occur from a Cruise Ship while docked in the pier.

For dealing with accidental oil spills all Cruise Ships have their own approved Shipboard Oil Pollution Emergency Plan (SOPEP) written in accordance with the requirements of Regulation 37 of Annex I of the International Convention for the Prevention of Pollution from Ships, as modified by the Protocol of 1978 relating thereto.

These Emergency Plans include contacting and coordinating with IMO's National Operational Contact Points when an oil spill occurs. (See Annex O-1)

Role of the Cruise Ship Port in case of accidental oil spills from a vessel docked at the pier

- 39. To report immediately to the ship any signs of oil spill if the ship has not detected it yet.
- 40. To monitor/record the spill with the surveillance cameras and security staff.
- 41. To support the ship in contacting IMO's National Operational Contact Points and local authorities.
- 42. To support the ship with staff if required.

### ENVIRONMENTAL EDUCATION AND AWARENESS RAISING

- 43. RCT will promote an Environmental Education and Awareness Raising Program. The general goal of this program is stressing the significance of the Bay Islands' ecosystems and resources. This program has been already submitted and approved as a separate document and is aimed to continue improving environmental behavior in both cruise ship visitors (including crew members) and the local population.
- 44. RCT will implement an environmental training program using the Environmental Licenses conditions as the basis in order to enable each employee to carry out those environmental operating procedures of which they are responsible for to undertake. RCT staff shall be made aware of the importance of caring for protected areas, plant species and fauna, with a view to preventing any such species from being cut down, harmed, captured or hunted within the project area.

### OTHER ENVIRONMENTAL ASPECTS

45. To record meteorological data obtained from the meteorological station.

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- 46. RCT shall ensure compliance with the provisions of the Code of Health, Labor Code, and associated regulations.
- 47. RCT staff use the necessary protective equipment, depending on the activity to be performed. For the above purpose, staff receives training on the importance and proper use of personal protection equipment.
- 48. RCT has installed at least three first-aid kits with the necessary implements in each work environment. Such kits have been properly placed, outfitted and labeled to ensure easy access by personnel.
- 49. RCT shall compensate for environmental damage to the ecosystem through the annual payment of a fee in the amount of US\$ 84,032.31.

## CONTROLLING AND REPORTING

- 50. RCT shall supervise its own environmental monitoring efforts in order to verify compliance with the environmental control measures established by SERNA, preparing and submitting the complete semiannual Environmental Measure Compliance Reports (ICMA) based on Form DECA-019, and coordinating any activities requested by DECA and the Municipal Environmental Unit during control and follow up inspections.
- 51. Additional to the Environmental Measures established by SERNA, RCT will have to comply also with any recommendations that the Environmental Municipal Unit in Roatan establishes, product of controls and monitoring activities that they conduct in the facilities, which will have to be incorporated to the ICMA's.
- 52. RCT shall keep a copy of all documents evidencing compliance with environmental measures and legal operating requirements, including a log of all environmental monitoring activities.
- 53. An Environmental Committee will be established integrated by the General Manager, the Maintenance Manager and the Environmental Advisor. This Committee will develop a detailed work plan; will review twice a year on the progress in implementing the Environmental Management System.
- 54. It is RCT's responsibility that all its employees implement the established in the Environmental Control Measures, for this reason, all personnel involved in the operation should have knowledge of all of the obligations.
- 55. Any environmental damage caused to the surrounding areas or to the nearby facilities of the project due to operational activities will be responsibility of RCT. RCT will be responsible for all due repairs.
- 56. RCT's Environmental Management System will be updated once a year.

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# **APPENDIX X - Sample Letter of Maintenance Work Request**

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To: Port Captain Isla Roatan, HN

- From: Guest Services Manager CARNIVAL VISTA
- Date: 9-Jan-2019

1)

3)

Subject: Authorization while in Port

We kindly request the authorization for the following:

Lowering and maneuvering of lifeboat(s) & rescue boat(s) into the water, alongside the ship, for the purpose of maintenance and general lifeboat drills.

Conduct Hot Works inside the vessel & open decks. All work will be under the supervision of our Fire Patrol Team.

Washing of the ship's decks and side shells with eco-friendly products, MARPOL Annex V approved chemicals & with fresh water.

Painting of side shell and open decks with HEMPEL HEMPATEX ENAMEL 5GAL WHITE 56360-100000 & HEMPEL HEMPATEX HI-BUILD 20LT WHITE 46410-12170 as per attached guideline. All necessary precautions will be taken

Your kind assistance in this request will be greatly appreciated.

Best Regards SOCOR BARRETO **Suest Services Manager** 

