

**Ditec Marine Products LLC**  
**SAFETY DATA SHEET**



**Section 1: Identification**

Product Name: Hull & Bottom Cleaner    Product Code:H005774

Ditec Marine Products, LLC  
W229 N2512 Duplainville Road  
Waukesha, WI 53186 USA  
Tel: 1 800 572 4390

**Emergency Phone:**  
CHEMTREC: Canada and USA - (800) 424-9300  
CHEMTREC: In Mexico - 01-800-681-9531

Product Use: Hull and Bottom Cleaner for Ships  
Not recommended for: NA

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Corrosive to metals	1	Corrosive to metals
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

**GHS Hazards**

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

**GHS Precautions**

P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see first aid treatment on SDS)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340	If inhales: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405	Store locked up
P406	Store in a corrosive resistant container with a resistant inner liner
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

**Danger**



**Section 3: Composition/Information on Ingredients**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Inorganic Salt 20% - 30%			
Hydrogen chloride 7647-01-0 5% - 10%		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling
Trade Secret 1% - 5%			

**Section 4: First-aid Measures**

**Inhalation**

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Eye Contact**

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

**Skin Contact**

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Section 5: Fire-fighting Measures**

**Extinguishing Media**

Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.

**Specific Hazards Arising from the Chemical** Thermal decomposition generates : Corrosive vapors.

**Special Protective Equipment and Precautions for Firefighters**

**Special Information:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

<b>Section 6: Accidental Release Measures</b>
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**Spill and Leak Procedures**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

<b>Section 7: Handling and Storage</b>
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**Handling Procedures**

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

**Storage Requirements**

Store containers in a cool, dry, well ventilated place. Keep container closed when not in use.

<b>Section 8: Exposure Control/Personal Protection</b>
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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Inorganic Salt			
Hydrogen chloride 7647-01-0		2 ppm Ceiling	NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling
Trade Secret N/A			

**ENGINEERING CONTROLS:** Provide ventilation sufficient to maintain exposure below the recommended limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGIENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

<b>Section 9: Physical and Chemical Properties</b>
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<p style="text-align: center;"><b>Appearance:</b> Clear slightly yellow liquid</p> <p style="text-align: center;"><b>Vapor Pressure:</b> Not Available</p> <p style="text-align: center;"><b>Vapor Density:</b> Not Available</p> <p style="text-align: center;"><b>Density:</b> Not Available</p> <p style="text-align: center;"><b>Freezing point:</b> Not Available</p> <p style="text-align: center;"><b>Boiling range:</b> 85 to 100 °C</p> <p style="text-align: center;"><b>Evaporation rate:</b> Not Available</p>	<p style="text-align: center;"><b>Odor:</b> Not Available</p> <p style="text-align: center;"><b>Odor threshold:</b> Not Available</p> <p style="text-align: center;"><b>pH:</b> &lt;1.0</p> <p style="text-align: center;"><b>Melting point:</b> Not Available</p> <p style="text-align: center;"><b>Solubility:</b> Soluble</p> <p style="text-align: center;"><b>Flash point:</b> Not Available</p> <p style="text-align: center;"><b>Flammability:</b> Not Available</p>
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<b>Explosive Limits:</b> Not Available <b>Autoignition temperature:</b> Not Available <b>Viscosity:</b> Not Available	<b>Specific Gravity</b> 1.190 <b>Decomposition temperature:</b> Not Available <b>Grams VOC less water:</b> Not Available
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**Section 10: Stability and Reactivity**

**Chemical Stability:**

STABLE

**Incompatible Materials**

metals, cyanides, Strong bases.

**Conditions to Avoid**

Direct sunlight. Extremely high or low temperatures.

**Hazardous Decomposition Products**

Hydrogen chloride. Thermal decomposition generates : Corrosive vapors .

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

Oral Toxicity LD50: 3,206mg/kg

Inhalation Toxicity LC50: 23mg/L

**Component Toxicity**

**Routes of Entry:**

Inhalation

Ingestion

Skin contact

Eye contact

**Target Organs**

Eyes

Skin

Respiratory System

**Effects of Overexposure**

CAS Number

Description

% Weight

Carcinogen Rating

**Section 12: Ecological Information**

**Component Ecotoxicity**

**Section 13: Disposal Considerations**

Dispose of in accordance with local state and federal regulations.

**Section 14: Transportation Information**

**UN Code:** UN1789

**Proper Shipping Name:** Hydrochloric acid

**Hazard Class:** 8

**Packing Group:** II

DOT Vessel Stowage Location : C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel .

**Section 15: Regulatory Information**

**CERCLA/SARA Hazardous Substances**

7647-01-0 Hydrogen chloride

**DEA List I and II Chemicals**

7647-01-0 Hydrogen chloride

**OSHA Process Safety Management Highly Hazardous Chemicals**

7647-01-0 Hydrogen chloride

**U.S. Clean Air Act Toxic and Flammable Substances**

7647-01-0 Hydrogen chloride

**SARA 313**

7647-01-0 Hydrogen chloride

**TSCA 8(b) Inventory**

7647-01-0 Hydrogen chloride

Inorganic Salt

**Country**

**Regulation**

**All Components Listed**

**Section 16: Other Information**

Date Prepared: 4/30/2020

**Disclaimer**

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

SDS for: 1.H005774.1GBulk.std.1

## STATEMENT OF COMPLIANCE

### **Hull & Bottom**

Hull & Bottom is readily biodegradable and is comprised of environmentally responsible raw materials and non-hazardous reactionary chemistries. Its components meet or exceed the highest global environmental regulatory requirements and are fully compliant with the standards of MARPOL Annex III and MARPOL Annex V. Hull & Bottom is free from harsh ingredients, making it safe to discharge into water at both full concentrate or with wash water without harming the marine environment. This product is NOT a marine pollutant.