

AURORA MARINE INDUSTRIES INC.

Safety Data Sheet

RAPID BOTTOM CLEANER

Version No: 1 Revision Date: January 5, 2023

1. Identification of the preparation and company

Preparation/Product Name Rapid Bottom Cleaner
Product Code 01322/01324
Intended Use Algae, mussel, barnacle, mineral & stain remover for boats.
Application Method Roll on, rinse off.
Company Name Aurora Marine Industries Inc.
 7015 Ordan Drive, Unit 11
 Mississauga, Ontario
 L5T 1Y2
 Canada
Telephone No. 905-564-4995
Fax No. 905-564-4956
24 hour Emergency Telephone No.- 613-996-6666*(cellular)

2. Hazard Identification of the product

Globally Harmonized System (GHS) classification: HAZARDOUS CHEMICAL OR PREPARATION

Skin corrosion/irritation, Category 1B, H314

Eye Damage - Category 1

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation, Category 3, H335

SIGNAL WORD: DANGER

PICTOGRAM:



Hazard statements:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H290 May be corrosive to metals.
- H333 May be harmful if inhaled.
- H335: May cause respiratory irritation.
- H433 Harmful to terrestrial vertebrates.

Prevention Statements:

- P102 Keep out of reach of children.
- P103 Read label before use.
- P234 Keep only in original container.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protections.

Response Statements:

- P101 If medical advice is needed, have product container or label at hand
- P304+P340+P312 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P330+P331+312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 Wash contaminated clothing before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P390 Absorb spillage to prevent material damage.

Storage Statements:

- P405 Store locked up.

Disposal Statements:

- P501 Dispose of waste material through a licensed contractor or facility.

3. Composition/Information on ingredients

Components	CAS Number	Proportion	Hazard Codes
Hydrochloric Acid	-	10%-30%	H314, H 335
Ingredients determined not to be hazardous	-	>70%	NA

4. First aid measures

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discoloration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin Contact:

If spill on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes. Continue to wash with large amounts of water until medical help is available.

Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Seek immediate medical assistance.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically. Can cause corneal burns.

5. Fire-fighting measures

Suitable Extinguishing Media:

Not combustible; however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the substance or mixture:

Non-combustible material.

Special protective equipment and precautions for fire-fighters:

Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire.

6. Accidental release measures

Recover for use if possible.

Ventilate the area. Avoid release to the environment

Absorb spillage to prevent material damage.

Dispose of according to regulations.

7. Handling and storage

Handling- Protect container from physical damage. Corrosive liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing, gloves and eye/face protection when mixing or using. Use in a well ventilated area. Do not store or use in confined spaces. Avoid breathing in spray, mists or vapours. Avoid eye contact. Avoid prolonged contact with the skin. Any exposure without protection should be prevented. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking, smoking or using toilet facilities.

In Storage- Keep only in original container. Store in cool dry well ventilated area. Do not freeze, keep container closed & away from heat.

8. Exposure controls and personal protection

Engineering Measures

N.A.

Exposure Limits

NA

Personal Protection**Respiratory Protection**

Use air -purifying respirator.

Eye Protection -

Wear safety glasses or splash proof goggles.

Hand Protection -

Wear rubber or plastic gloves.

Skin Protection-

Wear safety clothing, impervious to this material.

9. Physical and chemical properties

Physical State-

liquid

Flash Point (deg C)-

N.A.

Viscosity (cSt)-

1.012cP

Specific Gravity-

1.11

Vapour Density-

N.A.

Lower Explosive Limit-

N.A.

Solubility in Water-

soluble

Freezing point-

<0°C

pH

<1

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Do not mix with alkalis & active metals.

Incompatible materials: Incompatible with alkalis , oxidizing agents , sodium hypochlorite , cyanides , and many metals.

Hazardous decomposition products: Hydrogen chloride

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract.

Eye contact: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Skin contact: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Inhalation: Breathing in mists or aerosols will produce respiratory irritation.

Acute toxicity: No LD50 data available for the product.

However, for constituent(s) HYDROGEN CHLORIDE: Oral LD50 (rabbit): 900 mg/kg. Inhalation LC50 (rat): 3124 ppm/1h.

12. Ecological information

There are no data available on the product itself.

13. Disposal considerations

Wastes and empty containers should be disposed of in accordance with regulations

made under the Control of Pollution Act and the Environmental Protection Act. When using

information provided in this data sheet advice should be obtained from the Waste Regulation

Authority, as to whether the special waste regulations apply.

Dispose of waste material through a licensed contractor or facility.

14. Transport information

Road, Rail & Ocean Transport		Air Transport	
UN No.	1789	UN No.	1789
Hazard Class:	8	Hazard Class:	8
Packing Group	II	Packing Group	II
Shipping Name	Hydrochloric acid solution	Shipping Name	Hydrochloric acid solution
Marine Pollutant	No	Marine Pollutant	No

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. Regulatory information

Canada Regulatory Information:

Canadian Domestic Substances List (CEPA/DSL): All component of this product are listed.

Substance is classified according to Controlled Products Regulations (WHMIS) Classification: HAZARDOUS CHEMICAL OR PREPARATION

US Regulatory Information:

TSCA Inventory: All components of this product are listed on USA TSCA inventory.

Substance is classified according to OSHA Hazard Communication Standard: HAZARDOUS CHEMICAL OR PREPARATION

Australia Regulatory Information:

Australian Inventory of Chemical Substances (AICS): All components of this product are listed.

Substance is classified according to Safe Work Australia/GHS: HAZARDOUS CHEMICAL OR PREPARATION

Poisons Schedule (SUSMP): S6 Poison

New Zealand Regulatory Information:

New Zealand Inventory of Chemicals (NZIoC): All ingredients are listed on or exempt from the NZIoC.

Substance is classified in accordance with the Hazardous Substances and New Organisms (HSNO) regulations: HAZARDOUS CHEMICAL OR PREPARATION

HSNO Group Standard: Cleaning Products (Corrosive)

HSNO Approval Number: HSR002526

European Union regulatory information:

EC inventory: All ingredients are listed on, or exempt from, the EC inventory.

Substance is classified according to CLP/GHS: HAZARDOUS CHEMICAL OR PREPARATION

16. Other information

Date of preparation or revision of the safety data sheet; August 2, 2019

Acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists
CCOHS: Canadian Centre for Occupational Health and Safety
EST: Estimated
EC inventory: European Chemical Inventory
CLP: Classification, Labeling & Packaging of substance & mixtures
NA: Not Applicable
ND: Not Determined
NE: Not Established
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
REL: Recommended exposure limit
SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons
TLV: Threshold Limit Value
TWA: Time Weighted Average (TWA)
WHMIS: Workplace Hazardous Materials Information System
CAS number: Chemical Abstracts Service Registry Number
UN Number: United Nations Number
HSNO: New Zealand Hazardous Substances & New Organisms
NZIoC: New Zealand Inventory of Chemicals

The information herein is, to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions of application are beyond our control, Aurora marine does not accept liability for any damages resulting from the use of, or reliance on, this information, in inappropriate contexts.

Your attention is drawn to the disclaimer on the Product Data Sheet which with this Safety Data Sheet and the package labeling comprise an integral information system about this product. Copies of the Product Data Sheet are available from Aurora Marine on request or from our Internet site: www.auroramarine.com