

AURORA MARINE INDUSTRIES INC.

Safety Data Sheet

Alumabrite

Version No: 1 Revision Date: December 19-2016

1. Identification of the preparation and company

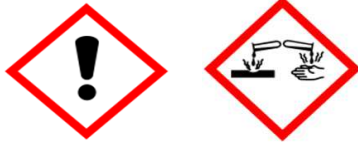
Preparation/Product Name Alumabrite
Product Code 01240
Intended Use Aluminum & Stainless Steel Cleaner
Application Method Dilute, Spray, Rinse
Company Name Aurora Marine Industries Inc.
 7015 Ordan Drive, Unit 11
 Mississauga, Ontario
 L5T 1Y2
 Canada
Telephone No. 905-564-4995
Fax No. 905-564-4956

24 hour Emergency Telephone No.- 613-996-6666/*666(cellular)**2. Hazard Identification of the product****Globally Harmonized System (GHS) classification:** HAZARDOUS CHEMICAL OR PREPARATION

Acute toxicity: Oral, Category 4

Skin corrosion/irritation, Category 1C

Serious eye damage/eye irritation, Category 1

SIGNAL WORD: DANGER**PICTOGRAM:****Hazard statements:**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Prevention Statements:

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective protective gloves and eye/face protection.

Response Statements:

P101 If medical advice is needed, have product container or label at hand.

P301 + P330+ P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301 + P312 IF SWALLOWED: 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.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

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.

Storage Statements:

P405 Store locked up.

Disposal Statements:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on ingredients

Components	CAS Number	Proportion	Hazard Codes
Ammonium hydrogen difluoride	1341-49-7	3%-7%	H302, H314, H318
Proprietary organic salt	Confidential	5%-10%	NA
Dodecyl Ammonium Sulphate	2235-54-3	1%-5%	NA
Ingredients determined not to be hazardous	-	>75%	NA

4. First aid measures

Inhalation:

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician.

Skin Contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Immediately call a POISON CENTER or doctor/physician.

Skin exposures can be treated with a **2.5% calcium gluconate gel** repeated until burning ceases.

Eye Contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

Ingestion:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Rinse mouth. Do NOT induce vomiting.

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 if required.

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)- Non-combustible material

Viscosity (cSt)- 1.012

Specific Gravity- 1.068± 0.1

Vapour Density- N.A.

Lower Explosive Limit- N.A.

Solubility in Water- Soluble

Freezing point- <0°C

pH 2.00-4.00

10. Stability and reactivity

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

Do not mix with alkalies & active metals.

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

Hazardous decomposition products: Hydrogen Fluoride

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.

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 Transport		Air Transport	
UN No.	(CONSUMER COMMODITY) RETAIL DISTRIBUTION LOAD	UN No.	2817
Hazard Class:		Hazard Class:	8 (6.1)
Packing Group		Packing Group	III
Shipping Name		Shipping Name	Ammonium hydrogendifluoride, solution
Marine Pollutant		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 components 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): S7 Dangerous 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: December 19, 2016

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