

AURORA MARINE INDUSTRIES INC.

Safety Data Sheet

Alumabrite

Version No: 1 Revision Date: 01-02-2015

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)
Poisons Information Centre New Zealand: 0800 764 766

2. Hazard Identification of the product

Classification According to Hazardous Substances Regulations 2001 (New Zealand): HAZARDOUS SUBSTANCE

HSNO Classification (New Zealand):

6.1C (Inhalation) Acutely toxic
6.1C (Dermal) Substances that are acutely toxic- Toxic
6.1C (Oral) Substances that are acutely toxic- Toxic
6.9B (Oral)Harmful to human target organs or systems.
6.9B (Inhalation) Harmful to human target organs or systems.
8.1A Corrosive to metals
8.2C Corrosive to dermal tissue
8.3A Corrosive to ocular tissue
9.3B Ecotoxic to terrestrial vertebrates

Globally Harmonized System (GHS) classification:

Acute toxicity: Oral, Category 3 H301
Acute toxicity: Skin, Category 3 H311
Acute toxicity: Inhalation, Category 3 H331
Skin corrosion/irritation, Category 1C H314
Serious eye damage/eye irritation, Category 1 H318
Specific Target Organ Systemic Toxicity (Repeated exposure), Category 2 H373
Ecotoxic to terrestrial vertebrates H432

SIGNAL WORD: DANGER

PICTOGRAM:



Hazard statements:

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H373 May cause damage to organs (Cardiovascular system) through prolonged or repeated exposure(Oral & Inhalation)
H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H432 Toxic 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.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection
P284 Wear respiratory protection

Response Statements:

P101 If medical advice is needed, have product container or label at hand.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P330+ P331 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.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P363 Wash contaminated clothing before reuse.
 P321 Specific treatment (see First Aid Measures on Safety Data Sheet).
 P322 Specific measures (see First Aid Measures on Safety Data Sheet).
 P340+P304 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P311 Call a POISON CENTER or doctor/physician
 P305 + P351+ P338IF 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.
 P391 Collect spillage.

Storage Statements:

P403+P233+P405 Store in a well-ventilated place. Keep container tightly closed. 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
Hydrofluoric acid %	7664-39-3	3%-7%	H301 H311 H314 H330
Sulphuric acid %	7664-93-9	0.1%-1%	NA
Ammonium sulphate	7783-20-2	5%-10%	NA
Proprietary Inhibitor	Confidential	5%-10%	NA
Ingredients determined not to be hazardous	-	>70%	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.
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)- 1.012cP
Specific Gravity- 1.036
Vapour Density- N.A.
Lower Explosive Limit- N.A.
Solubility in Water- Soluble
Freezing point- <0°C
pH 3-4

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 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.	1790	UN No.	1790
Hazard Class:	8, 6.1	Hazard Class:	8, 6.1
Packing Group	II	Packing Group	II
Shipping Name	Hydrofluoric Acid solution	Shipping Name	Hydrofluoric 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

Regulatory Information:

To the manufacturer's best knowledge, all ingredients are listed on, or exempt from, the **New Zealand Inventory of Chemicals (NZIoC)**.

HSNO Group Standard: Industrial and Institutional Cleaning Products (Toxic [6.1], Corrosive)

HSNO Approval Number: HSR002595

16. Other information

Date of preparation or revision of the safety data sheet; January 20, 2014

Acronyms:

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)

NZIoC: New Zealand Inventory of Chemicals

HSNO: Hazardous Substances & New Organisms

CAS number: Chemical Abstracts Service Registry Number

Hazchem Code: Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC: International Agency for Research on Cancer

N.A.: Not Available

NOS: Not otherwise specified

NTP: National Toxicology Program (USA)

UN Number: United Nations Number

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, Auroramarine 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