

## SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION

**Manufacturer:**  
**Company:** Sudbury Boat Care  
**Street Address:** 65 Walnut Street  
**City / State / Zip:** Peabody, MA 01960  
**Phone:** (978) 532-4019

**Emergency Contact Information**  
Call CHEMTREC 800-424-9300

**Product Name:** ALL-OFF Aluminum Hull & Pontoon Cleaner  
**Synonyms:** All-Off Aluminum Hull & Pontoon Cleaner, ALL-OFF Aluminum Pontoon Cleaner  
**Part Number(s):** 3132, 31128  
**Recommended use:** Cleaning aluminum boat hulls & pontoons  
**Restrictions on use:** Use only as recommended

### SECTION 2 – HAZARD(S) IDENTIFICATION

This material is considered hazardous per the US OSHA Hazard Communication Standard (29CFR1910.1200).

**Hazard Classification:** Skin corrosion/irritation, Category 1  
Serious eye damage/eye irritation, Category 1  
Corrosive to Metals, Category 1

**Signal Word:** Danger

**Hazard Statements:** Causes serious eye damage. Causes severe skin burns and eye damage.  
May be corrosive to metals.

**Hazard Symbols:**



#### PREVENTION

Keep only in original container. Do not breathe fumes, vapors, mist or sprays. Wash hands and exposed skin thoroughly after handling. Wear eye and face protection, protective gloves and clothing.

#### RESPONSE

**If swallowed:** Rinse mouth. Do NOT induce vomiting. Immediately call an ambulance or poison center.

**If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with plenty of water under shower. Immediately call an ambulance or poison center.

**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Immediately call an ambulance or poison center.

**Precautionary Statements:** **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call an ambulance or poison center.  
Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

#### STORAGE

Store locked up. Store in corrosive resistant container.

#### DISPOSAL

Contact local municipal, state and/or federal agencies to determine appropriate disposal options for the product. Dispose of this container with a registered reconditioner or as otherwise appropriate.

**Hazards Not Otherwise Classified:** None.

**General Advice:** Practice good general industrial hygiene.

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### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Nature of product: Mixture

Ingredient Name	CAS Number	%	Type	GHS Classification
Water	7732-18-5	> 75%	A	None
Hydrochloric acid	7647-01-0	5-10	A	Acute toxicity – Oral, Category 4 Skin corrosion/irritation, Category 1 Serious eye damage/eye irritation, Category 1 Specific Target Organ Toxicity - Single Exposure, Category 3 (Respiratory tract irritation) Corrosive to metals, Category 1
Phosphoric acid	7664-38-2	3-7	A	Skin corrosion/irritation, Category 1B Serious eye damage/eye irritation, Category 1 Corrosive to metals, Category 1
Amines, coco alkyl, ethoxylated	61791-14-8	3-7	A	Acute toxicity – Oral, Category 4 Skin corrosion/irritation, Category 1B Serious eye damage/eye irritation, Category 1
Ammonium fluoride ((NH <sub>4</sub> )(HF <sub>2</sub> ))	1341-49-7	0.5 – 1.5	A	Acute toxicity – Oral, Category 3 Skin corrosion/irritation, Category 1B Serious eye damage/eye irritation, Category 1
Hydrofluoric acid	7664-39-3	< 1	D	Acute toxicity – Oral, Category 2 Acute toxicity – Inhalation, Category 2 Acute toxicity – Dermal, Category 1 Skin corrosion/irritation, Category 1A Serious eye damage/eye irritation, Category 1

Type: [A] Constituent [B] Surplus Original Reactant [C] Side Product [D] Decomposition Product [E] Impurity  
If Chemical Name & CAS # is "proprietary" &/ Weight-% is listed as a range: the specific chemical identity and/or percentage of composition has been withheld as a trade secret or percentage of composition is due to batch variation.  
There are no additional ingredients present which, to the best knowledge of the manufacturer, are classified and contribute to the classification of the substance and therefore require reporting.

### SECTION 4 – FIRST-AID MEASURES

<b>General Advice:</b>	Provide this SDS to any medical personnel responding to a call for help. Ammonium bifluoride in the mixture can yield appreciable amounts of Hydrofluoric acid.
<b>Eye contact:</b>	Rinse immediately with plenty of water, including under the eyelids, for at least 30 minutes. Do not transport until flushing procedure complete unless transporter can continue flushing. Get immediate medical attention.
<b>Skin contact:</b>	Wash off immediately with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Treat with 2.5% Calcium gluconate gel. Get immediate medical attention.
<b>Inhalation:</b>	Remove patient to fresh air. If breathing is difficult, keep patient at rest, in a position comfortable for breathing. When administering rescue breathing, rescuer must take precautions against exposure. Get immediate medical attention.
<b>Ingestion:</b>	Do NOT induce vomiting. Rinse mouth. Give a conscious patient water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs spontaneously, keep the patient's head below the knees to prevent aspiration of vomit. Get immediate medical attention. A toxic dose of Fluoride is estimated at between 5 and 10 mg/kg; 30 mL of this mixture ingested by a 10 kg child is equal to 20 mg/kg fluoride.
<b>Most Important Symptoms, Acute &amp; Delayed:</b>	Severe chemical burns to the eyes, skin, and internal tissues of the body. Hydrofluoric acid can cause burns without noticeable pain. Symptoms may be delayed and include tissue damage characteristic of Hydrofluoric acid burns.

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**Indication of immediate medical attention or special treatment:**

Eye exposure can result in permanent damage; immediate flushing is required. Skin exposure & ingestion can result in overexposure to Fluoride ion; antacids based on Magnesium &/ Aluminum may be suggested. Treat large exposures of this mixture with Calcium gluconate (topical gel &/ injection).

**Note to Physician:**

Treat symptomatically. Seizures may require Diazepam but can ultimately be corrected by electrolyte stabilization. Monitor EKG, electrolytes, & vital signs. High fluoride ion concentration may be present in urine after skin exposure. Sucralfate may be helpful in protecting the upper GI tract from acid injury.

### SECTION 5 – FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

Use media suitable for surrounding fire: water mist, water fog, foam, carbon dioxide, dry chemical powder, sand.

**Unsuitable Extinguishing Media:**

High-pressure water jet may spread burning material.

**Specific hazards:**

Water must boil away before remaining ingredients are at risk from fire. Heating may generate pressure within closed containers. Evaporation of water may release Hydrofluoric acid fumes. Combustion may result in hazardous combustion products including Phosphine, Phosphorous oxides, Carbon monoxide, and Carbon dioxide. Do not allow run-off from firefighting to enter drains or water courses.

**Special precautions for fire-fighters:**

Do not breathe fumes. Use water to cool surrounding containers. Wear SCBA if fighting fire close-in.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, & emergency procedures:**

Ensure adequate ventilation. Exclude unnecessary personnel. Eliminate all ignition sources. Prevent discharge to the ground, sewers, drains, or waterways. Wear Personal Protective Equipment (PPE) appropriate to clean-up.

**Methods and materials for containment and clean-up:**

Prevent entry into waterways, sewer, basements, or confined areas. Dike material to prevent spreading. Prevent further leakage / spillage if safe to do so. Neutralizing materials include Calcium carbonate (preferred), lime, soda ash, and baking soda; sprinkle powders lightly and evenly over the surface of the spill until bubbling stops. Absorb with inert material and transfer to a waste container.

**General advice:**

Spilled material may cause slippery conditions. Prevent further leakage or spillage if safe to do so. Discharge into the environment should be avoided. Inform authorities of all environmental releases as appropriate.

### SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling:**

Observe good general industrial hygiene. Avoid contact with skin and eyes. Avoid prolonged exposure. Do not breathe mist or vapor. Keep container closed when not in use. Do not eat, drink, or use tobacco products when using this product. Ensure adequate ventilation. Wear appropriate personal protective equipment. Do not use pressure to empty drums. Keep away from open flames, hot surfaces, and sources of ignition. Wash thoroughly after handling. Avoid release to the environment. This product is a mixture of acids; always add acids to water; do not add water to acids.

**Conditions for safe storage:**

Store locked up. Keep containers tightly closed, out of direct sunlight, at ambient temperatures in a dry and well-ventilated place.

**Materials incompatible with product:**

Acid anhydrides, amines, bases, sulfides, metals.

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### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Substance Identity	CAS #	Regulating Body	Value Type	Value
Hydrochloric acid	7647-01-0	OSHA Z-1	Ceiling	5 ppm
Phosphoric acid	7664-38-2	OSHA Z-1	PEL as TWA	1 mg/m <sup>3</sup>
Fluorides (as F)	Varies	OSHA Z-1	PEL as TWA	2.5 mg/m <sup>3</sup>

#### Engineering Controls:

Maintain adequate ventilation (10 air changes / hour minimum). Use general ventilation, local exhaust, and other necessary engineering controls to control airborne levels below exposure limit. Avoid heat and sparks (from grinding or static discharge). Ensure eyewash stations and showers are available and in good working order.

#### Individual protection measures:

Use good general industrial hygiene. Use personal protective equipment made from Nitrile rubber, Neoprene, or PVC. If local exhaust is inadequate, use an appropriate respirator. Do not eat, drink, or use tobacco products when working with this product.

### SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	A pale, yellow liquid	<b>Lower flammability (or explosive) limits:</b>	No data available
<b>Odor:</b>	Acidic odor. Do not breathe vapors.	<b>Upper flammability (or explosive) limits:</b>	No data available
<b>Odor threshold:</b>	No data available	<b>Vapor Pressure:</b>	No data available
<b>pH:</b>	< 1	<b>Vapor Density:</b>	No data available
<b>Melting / Freezing Point:</b>	No data available	<b>Relative Density:</b>	1.2
<b>Initial Boiling Point:</b>	No data available	<b>Solubility:</b>	Completely soluble in water
<b>Boiling Range:</b>	No data available	<b>Partition Coefficient: n-Octane / Water</b>	No data available
<b>Flash Point:</b>	No data available	<b>Auto-ignition Temperature:</b>	No data available
<b>Evaporation Rate:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	No data available

**NOTE:** the physical data presented above are typical values and should not be construed as a specification.

### SECTION 10 – STABILITY & REACTIVITY

**Reactivity:** Reacts violently with alkaline substances.

**Chemical stability:** Stable under typical storage conditions.

**Possibility of hazardous reactions:** Will not polymerize.

**Conditions to avoid:** Exceptionally high temperatures, ignition sources, poorly ventilated working or storage areas.

**Incompatible materials:** Acid anhydrides, amines, bases, sulfides, metals.

**Hazardous decomposition products:** Will not decompose under typical conditions. Contact with metal may release flammable Hydrogen gas. May evolve Hydrogen fluoride gas. May evolve Hydrogen chloride gas.

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### SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Skin contact and eye contact are the most likely routes of exposure. Exposure by ingestion is possible but unlikely. Given the nature of the product, exposure by inhalation or injection is unlikely.
<b>Symptoms and effects:</b>	Severe chemical burns to the eyes, skin, and internal tissues of the body.
<b>Chronic effects:</b>	Permanent eye damage.
<b>Numerical measure of toxicity:</b>	This mixture is not classified as Acutely toxic.
<b>Carcinogenicity:</b>	Neither this product nor its components are on the NTP list, the IARC list, or the OSHA list of known or potential carcinogens.

### SECTION 12 – ECOLOGICAL INFORMATION

<b>Aquatic toxicity:</b>	Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
<b>Terrestrial toxicity:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	No data available

### SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Disposal method:</b>	Dispose of unused and/or contaminated material in accordance with local, state, and federal regulations.
<b>Container disposal method:</b>	Send durable containers to a reconditioner for refurbishment. Dispose of other containers in accordance with local, state, and federal regulations.

### SECTION 14 – TRANSPORTATION INFORMATION

	UN3264, Corrosive liquid, acidic, inorganic, n.o.s (contains Hydrochloric acid, Phosphoric acid), 8, II
<b>US DOT Highway &amp; Rail:</b>	This product qualifies for the exemptions listed at 49CFR173.154. When shipped as a Limited Quantity (less than 0.3 gallons per inner package, < 66 lbs gross per package) in conformance with 49CFR173.154(b), the product is NOT REGULATED for shipment.
<b>Marine Pollutant:</b>	No data available
<b>IMO / IMDG Water Transport:</b>	No data available
<b>Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC / IGC Code:</b>	Consult IMO regulations before transporting in bulk by ocean transport.
<b>ICAO / IATA Air Transport:</b>	No data available

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### SECTION 15 – REGULATORY INFORMATION

#### Chemical Inventory Compliance

This product complies with the national inventories of the following countries:

#### OSHA Hazard Communication Standard

(as regulated by US 29CFR1910.1200):

**CERCLA** This product, as supplied, contains the following hazardous substances with a Comprehensive Environmental Response Compensation and Liability Act Reportable Quantity (CERCLA RQ) as regulated by US 40CFR302 (a release equal to or greater than the RQ requires reporting to the National Response Center (800-424-8802), the SERC, and the LEPC):

**EPCRA Sections 301-303 & 304** This product, as supplied, contains the following Extremely Hazardous Substances (EHS) subject to a Threshold Planning Quantity (TPQ) and Reportable Quantity (RQ) as regulated by US 40CFR355 (a release equal to or greater than the RQ requires reporting to the SERC and LEPC):

#### EPCRA Section 311 & 312

(as regulated by US 40CFR370 for Tier II Reporting):

#### EPCRA Section 313

(as regulated by US 40CFR372 for TRI Reporting):

**US CWA** This product, as supplied, contains the following substances regulated as pollutants pursuant to the Clean Water Act (40CFR122.21 & 40CFR122.22):

**US CAA HAPs** This product, as supplied, contains the following substances regulated as Hazardous Air Pollutants under the Clean Air Act Section 112:

US TSCA

This material is considered hazardous by the OSHA HazCom 2012 Standard (29CFR1910.1200).

Substance	CAS #	RQ
Hydrochloric acid	7647-01-0	5000 lbs
Phosphoric acid	7664-38-2	5000 lbs

Calculated RQ exceeds reasonably attainable upper limit.

Substance	CAS #	TPQ	RQ
Hydrochloric acid	7647-01-0	500 lbs	5000 lbs

Calculated RQ exceeds reasonably attainable upper limit.

Refer to Sections 2 and 3 of this SDS for information.

Substance	CAS #
Hydrochloric acid	7647-01-0

No Data Available.

Substance	CAS #
Hydrochloric acid	7647-01-0

### SECTION 16 – OTHER INFORMATION

Revision Date: 10 September 2021

NFPA Rating: 

Health / Blue:	<b>3</b>
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Flammability / Red:	<b>1</b>
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Instability / Yellow:	<b>0</b>
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 Specific Hazard / White: **ACID**

This material is usually prepared and distributed as a consumer product. Consumer use should follow precautions and instructions found on the consumer package. This SDS is intended for communicating hazards in the workplace.

**Disclaimer:** This Safety Data Sheet (SDS) was prepared to comply with the US OSHA Hazard Communication Standard (29 CFR 1910.1200; aka HazCom 2012). This SDS supersedes any previous SDS. The information and recommendations described in this SDS are provided in good faith and based upon data believed to be correct. However, the information provided in this SDS is provided without any warranty, express or implied, regarding its correctness or accuracy. The information provided applies only to the product as shipped. The information is offered for the end user's information, consideration, and further investigation. The information contained in this document is not to be construed as absolute or complete since additional information may be necessary or desirable when particular / exceptional conditions / circumstances exist; or, because of applicable laws or government regulations. Since the actual conditions for the use of the product are beyond the manufacturer's control, no guarantee (express or implied) is made as to the effects of such use or the results to be obtained. The sole responsibility to determine appropriate conditions for the use of this product and the assumption of liability for any loss, damage, or expense arising from the product's use rests with the end user. The end user is encouraged to read the SDS and understand any associated hazards associated with the product thoroughly before using. It is the end user's responsibility to ensure that use, handling, storage, and disposal of the product complies with all federal, state, provincial, and local laws.