



THIS APPLIES TO UNDILUTED MATERIAL ONLY!

# Safety Data Sheet

## ALUMA BRITE/HD

SDS Revision Date: 08/03/2021

### 1. Product and Company Name

#### 1.1. Product identifier

**Product Identity** ALUMA BRITE/HD  
**Alternate Names** NA ID NO: 206.803

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Product Label  
**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Hydrus Detergents  
2621 7<sup>TH</sup> Avenue South  
Estherville, IA. 51334  
(712) 765-1060

#### 1.4 Medical and Emergency Spill Information

**FOR EMERGENCY SPILL, LEAK, FIRE, EXPOSURE CALL 24/7** CHEMTREC: (800) 424-9300  
Outside US: (703)-527-3887  
**Customer Service: ROXXON CORPORATION** PHONE: (540) 879-2468

### 2. Hazard identification of the product

#### 2.1. Classification of the substance or mixture

Acute Tox. 4;H302 Harmful if swallowed.  
Skin Corr. 1A;H314 Causes severe skin burns and eye damage.  
Eye Dam. 1;H318 Causes serious eye damage.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

#### [Prevention]:

P261 Avoid breathing fume/gas/mist/vapors/spray.  
P264 Wash 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 / eye protection / face protection.

#### [Response]:

P301+330+331 IF SWALLOWED: Call a physician immediately. Rinse out mouth. Do NOT induce vomiting.  
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Shower off immediately. Massage in a 2.5% calcium gluconate gel until pain is relieved. Seek immediate medical attention.  
P304+312 IF INHALED: Call a doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
 P308+313 IF exposed or concerned: Seek immediate medical attention.  
 P310 Immediately call a doctor / physician.  
 P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P363 Wash contaminated clothing before reuse. Discard any that cannot be de-contaminated.  
 P391 Collect spillage.

**[Storage]:**

P403+233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**[Disposal]:**

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

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
<b>Sulfuric Acid</b> CAS Number: 0007664-93-9	<b>15-40</b>
<b>Ammonium Bifluoride</b> CAS Number: 0001341-49-7	<b>05 – 20</b>

**4. First aid measures**

**4.1. Description of first aid measures**

**General**

Move victim to fresh air.  
 Call 911 or emergency medical service if deemed necessary.  
 Give artificial respiration if victim is not breathing.  
 Does not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.  
 Administer oxygen if breathing is difficult.  
 Remove and isolate contaminated clothing and shoes.  
 In case of contact with substance, see FIRST AID below.  
 Avoid getting material on unaffected skin.  
 Keep victim warm and quiet.  
**Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and taking precautions to protect themselves.**  
 Massaging in a 2.5% Calcium Gluconate gel helps with pain relief.  
**NOTES TO PHYSICIAN:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Inhalation**

Move to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiration medical equipment. Administer oxygen if breathing is difficult.

**Eyes**

Allow streaming water to flow over the face while blinking the eyes for at least 15 minutes, making sure you have complete irrigation of the eye and lids. Seek medical attention immediately.

**Skin**

Immediately flush skin with plenty of water for at least 15-minutes; while removing contaminated clothing/shoes. After rinsing, massage in a 2.5% Calcium Gluconate gel until pain is relieved. If pain persists contact a physician.

**Ingestion**

If swallowed, Do NOT induce vomiting, Seek medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

**Overview**

ACUTE: Extremely corrosive to all body tissue.  
 Chronic: None known.  
 INHALATION Mist may cause damage to upper respiratory tract and/or damage lung tissue.  
 EYES: Tissue destruction and permanent eye damage may occur if not treated immediately.  
 SKIN: Can be a severe irritant. May be corrosive and cause severe burns.  
 INGESTION: Corrosive to mucous membranes of the mouth, esophagus, stomach and throat.

**Eyes**

Tissue destruction and permanent eye damage may occur if not treated immediately.

**Skin**

May be corrosive and cause severe burns. Can also be a severe irritant.

**Ingestion**

May be harmful if swallowed. (Not adopted by US OSHA) Corrosive to mucous membranes of the mouth, esophagus, stomach and throat.

**Inhalation**

Severe irritation and burning may be caused by exposure to mist. Avoid the mist.

**5. Fire-fighting measures**

**5.1. Extinguishing media:** Water, Alcohol, Carbon Dioxide, Foam, Dry Chemical. Do not use water jet.

**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: Oxides of sulfur at high temperatures. Hazardous gases may evolve on contact with chemicals such as cyanides, sulfides and carbides. Avoid breathing fume/gas/mist/vapors/spray.

**5.3. Advice for fire-fighters:** Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.) Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.

**TOXIC:** Inhalation, ingestion or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed!

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**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures:** ELIMINATE all ignition sources (no smoking, flares, sparks of flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**6.2. Environmental precautions:** Do not allow spills to enter drains or water courses. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly removed soiled clothing and wash thoroughly before re-use. Keep alkaline chemicals away from this product.

Do not allow spills to enter drains or waterways.

**6.3. Methods and material for containment and cleaning up:**

**LARGE SPILL:** As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters. (150 feet) for liquid. Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

Ventilate enclosed areas.

Contain, dilute cautiously with water, and neutralize with soda ash, lime or limestone.

**7. Handling and storage**

**7.1. Precautions for safe handling**

Always add acid slowly and in small amounts. Never use hot water. Never add water to acids-always add acids to water.

See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Handle containers carefully to prevent damage and spillage. Incompatible materials: Acids react with most metals to release hydrogen gas which can form explosive mixtures in air. Alkaline solutions, metals, metal powder, carbides, chlorates, nitrates, strong oxidizers, reducers, or combustible organics.

See Section 2 for further details – (Storage)

**7.3. Specific end use(s)**

Aluminum Brightener Detergent

**8. Exposure controls and personal protection**

**8.1. Control parameters**

**EXPOSURE**

CAS No.	Ingredient	Source	Value
0001341-49-7	Ammonium Bifluoride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007664-93-9	Sulfuric Acid	OSHA	TWA 1mg/m3
		ACGIH	TWA: 0.2 mg/m3A, 1, Revised 2004,
		NIOSH	TWA 1 mg/m3
		Supplier	No Established Limit

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0001341-49-7	Ammonium Bifluoride	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007664-93-9	Sulfuric Acid	OSHA	Select Carcinogen: No
		NTP	Known: Yes; Suspected: No

**8.2. Exposure controls****Respiratory**

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

**Eyes**

Wear safety glasses with side shields to protect eyes. Use Face Shield. Emergency eye wash station should be in close proximity.

**Skin**

Chemical resistant clothing such as coveralls/apron boots should be worn. Rubber or acid resistant protection for hands. A 2.5% Calcium gluconate gel should be at safety station.

**Engineering Controls**

Use with adequate ventilation

**Other Work Practices**

When using the product always wear all protective clothing for feet, hands, eyes, skin and inhalation. Facilities storing or using this material should be equipped with an eyewash facility and emergency shower. A 2.5% Calcium gluconate gel should also be at a safety station. Good personal hygiene practices should always be followed. Always wash thoroughly after handling.

See section 2 for further details. - [Prevention]:

**9. Physical and chemical properties**

<b>Appearance</b>	Milky White Liquid
<b>Odor</b>	Acid odor
<b>Odor threshold</b>	Not Measured
<b>pH</b>	5% Solution = 1
<b>Melting point / freezing point</b>	212 F
<b>Initial boiling point and boiling range</b>	NA
<b>Flash Point</b>	Not Measured
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	23 @ 70F
<b>Vapor Density</b>	(Air=1) 1.2
<b>Specific Gravity</b>	1.14
<b>Solubility in Water</b>	Soluble
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured

**9.2. Other information:** No other relevant information.

**10. Stability and reactivity**

**10.1. Reactivity:** Hazardous Polymerization will not occur.

**10.2. Chemical stability:** Stable under normal circumstances.

**10.3. Possibility of hazardous reactions:** Chlorine Bleach

**10.4. Conditions to avoid:** Excessive heat. Alkaline Products, Chlorine Bleach.

**10.5. Incompatible materials:** Acids react with most metals to release hydrogen gas which can form explosive mixtures in air. Water, alkaline solutions, metals, metal powder, carbides, chlorates, nitrates, strong oxidizers, reducers or combustible organic.

**10.6. Hazardous decomposition products:** Oxides of sulfur at high temperatures. Hazardous gases may evolve on contact with chemicals such as cyanides, sulfides and carbides.

**11. Toxicological information****Acute toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Sulfuric Acid – (7664-93-9)	2,140.00, Rat-Category: 5	No data available	No data available	No data available	No data available
Ammonium Bifluoride – (1341-49-7)	147.00, Rat-Category: 3	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
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Acute toxicity (oral)	5	Toxic if swallowed
Acute toxicity (dermal)	4	Severe burns
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious/severe eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	----	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Sulfuric Acid – (7664-93-9)	42.00, Gambusia affinis	42.50, Pandalus montagui	Not Available
Ammonium Bifluoride – (1341-49-7)	Not Available	Not Available	Not Available

**12.2. Persistence and degradability:** There is no data available on the preparation itself.

**12.3. Bioaccumulative potential:** Not Measured

**12.4. Mobility in soil:** No data available

**12.5. Results of PBT and vPvB assessment:** This product contains no PBT/vPvB chemicals

**12.6. Other adverse effects:** No data available.

## 13. Disposal considerations

**13.1. Waste treatment methods:** Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in the data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

## 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
<b>14.1. UN number</b>	UN2871	Un2817	UN2817
<b>14.2. UN proper shipping name</b>	UN2817, Ammonium Hydrogendifluoride Solution, 8, (6.1), II	UN2817, Ammonium Hydrogendifluoride Solution, 8, (6.1), II	Not Legal
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> 8 <b>DOT Label:</b> 8, 6.1	<b>IMDG:</b> 8 <b>Sub Class:</b> 6.1	<b>Not Legal</b>
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user</b>	No further information		

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not Applicable.

## 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.  
**Toxic Substance Control Act (TSCA)** All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.  
**WHMIS Classification** D2B E  
**US EPA Tier II Hazards**

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes

**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs (lbs.):** Ammonium Bifluoride (100.00) Sulfuric Acid (1,000.00)

**EPCRA 302 Extremely Hazardous :** Sulfuric Acid

**EPCRA 313 Toxic Chemicals:** Sulfuric Acid

**Proposition 65 - Carcinogens (>0.0%):** (No Product Ingredients Listed)

**Proposition 65 - Developmental Toxins (>0.0%):** (No Product Ingredients Listed)

**Proposition 65 - Female Repro Toxins (>0.0%):** (No Product Ingredients Listed)

**Proposition 65 - Male Repro Toxins (>0.0%):** (No Product Ingredients Listed)

**N.J. RTK Substances (>1%):** Ammonium Bifluoride, Sulfuric Acid

**Penn RTK Substances (>1%):** Ammonium Bifluoride, Sulfuric Acid

#### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

We believe this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.

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