

Safety Data Sheet
Aluminum Brightner

SECTION I - IDENTIFICATION

	Hood Sales & Service LLC 1180 Hunting Club Road Oakman, Al 35579 (205) 275-3536 Hood Sales & Service LLC :..... (205) 275-3536
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Product Number 2224
Product Name Aluminum Brightner
Chemical Family
CAS Number Multiple
Date Prepared 2/2/2007
Revision Number 4/28/2015
Recommended Use Industrial Use Only

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Corrosive to Metals	Category 1
Skin Corrosion/Irritation	Category 1A, B, C
Serious Eye Damage/Eye Irritation	Category 1
Acute Toxicity, Inhalation	Category 1, 2

DANGER!

GHS LABEL:



Hazard Statements

H290	May be corrosive to metals
H314	Causes severe burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled

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Precautionary Statements

P234	Keep only in original packaging
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated are.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P320	Specific treatment is urgent (see ... on this label).
P321	Specific treatment (see ... on this label).
P363	Wash contaminated clothing before reuse.
p390	Absorb spillage to prevent material damage.
P403+233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in a corrosive resistant/... container with a resistant inner liner.
P501	Dispose of contents/container to...

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Sulfuric Acid	7664-93-9	<20	1 mg/m ³ (Ceiling)	1 mg/m ³ (Ceiling)
2-Butoxyethanol	111-76-2	<5	50 ppm	20 ppm
Hydrogen fluoride	7664-39-3	<5	3.0 ppm	0.5 ppm
Alkylphenol Ethoxylate	9016-45-9	<5	Not Established	Not Established

SECTION IV - FIRST AID MEASURES

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Contact with eyes: Flush with water for 15 minutes. Seek immediate medical attention.

Skin contact: Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

Ingestion: If swallowed. Do not induce vomiting. Seek immediate medical attention.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Special Fire Fighting Procedures

Unusual Fire Fighting Hazards: Contact with reactive metals can generate hydrogen gas, which is flammable.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate all unprotected personnel from the area.

Environmental Precautions: Small spills: cover the contaminated area with Sodium Bicarbonate or a soda ash/slaked lime mixture 50/50. Mix & add water to form a slurry, scoop up slurry and wash site with soda ash solution. Large Spills: stop spill at source & dike area pump to salvage tank, repeat the small spill procedure once all the liquid is pumped to a salvage tank. Wash down with vinegar to neutralize the acid.

Methods for Cleaning Up:

SECTION VII - HANDLING AND STORAGE

- Handling and Storage:**
- Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.
 - Wash thoroughly after handling.
 - Do not redistribute empty containers.
 - Do not reuse drums without recycling or reconditioning in accordance with any applicable federal, state, or local laws.
 - Avoid contact with eyes.
 - Avoid prolonged skin contact with product concentrate and solutions.

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- Product is acidic. Avoid prolonged breathing of mist or vapor. Minimize skin contact. Wash exposed skin areas thoroughly after handling. "Empty" containers retain residue and/or vapor. Treat containers with same caution as when handling the contents. Keep containers tightly closed when not in use. When unloading bulk vehicles, personnel should wear chemical goggles and rubber or neoprene gloves. All fittings should be properly secured prior to energizing/unloading the system. Care should be taken to avoid acid contact when disconnecting lines/hoses after unloading.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Sulfuric Acid	7664-93-9	1 mg/m ³ (Ceiling)	1 mg/m ³ (Ceiling)
2-Butoxyethanol	111-76-2	50 ppm	20 ppm
Hydrogen fluoride	7664-39-3	3.0 ppm	0.5 ppm
Alkylphenol Ethoxylate	9016-45-9	Not Established	Not Established

Engineering Controls:

Monitoring:

Personal Protective Equipment (PPE)

Eye Protection: Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

Skin Protection: Impervious apron and work boots recommend where splashing may occur.

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Clear and colorless in appearance
Odor	Sharp penetrating odor
pH@25°C	
Melting/Freezing Point	
Flashpoint	None TCC
Specific Gravity	1.125 20.C/20.C
Solubility	Complete
Auto-Ignition Temperature	
Decomposition Temperature	
VOC Content	
Odor Threshold	
Boiling Range	760 mm@216°F
Evaporation Point	G/T 1
Flammable Limits - Upper	
Flammable Limits - Lower	
Vapor Pressure	32mm@20°C
Vapor Density (Air=1)	20.C L/T 1
Viscosity	1.125

SECTION X - STABILITY AND REACTIVITY

Stability: Stable
Stable, under normal conditions of storage and handling.

Conditions to Avoid: Material is very corrosive and will attack most metals and evolve hydrogen gas.

Hazardous Decomposition/Byproducts:

Hazardous Polymerization:

Polymerization Conditions to Avoid:

Incompatibilities:

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SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Contact and inhalation; ingestion possible.

Inhalation: Low to moderate degree of toxicity by inhalation.
Chronic overexposure may result in irritation or tissue damage and an increased susceptibility to respiratory illness, and permanent lung damage.
Breathing spray or mists can be harmful.
Can cause damage to nasal and respiratory passages.

Eye Contact: Causes eye irritation including stinging, watering and redness which may result in corneal injury.
Prolonged contact can result in chemical burns and permanent tissue damage.
High vapor concentrations are irritating to the eyes.
Will cause severe burns on contact and will damage the eyes.
This material can cause significant eye irritation.

Skin Contact: Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.
Repeated or prolonged contact with large amounts of this material may result in absorption through the skin to produce toxic effects.
Solid or liquid contact can cause severe burns and deep ulcerations.
Causes burns, possible deep ulceration.

Ingestion: Moderate to high degree of toxicity by ingestion. May be harmful or fatal if swallowed.
Low degree of toxicity by ingestion.
Causes severe damage to mucous membranes and deep tissues, a result in death on penetration to vital areas.

Acute Toxicity Value: See Health Hazards below.
Eye or skin contact will result in serious burns and may cause blindness.

Chronic (Long Term) Effects: See Health Hazards above.

Toxicity:

Component Name	LD50	LC50
Sulfuric Acid	Oral - rat - 2140 mg/kg	Inhalation - mouse - 320 mg/m ³ /2H; Inhalation - rat - 51-
2-Butoxyethanol	Oral - Rat - 470 mg/kg; Dermal - Rabbit - 220 mg/kg;	Inhalation - Rat - 4 h - 450 ppm
Hydrogen fluoride	Not Established	Not Established
Alkylphenol Ethoxylate	Oral - Rat - 960 - 3,980 mg/kg; Dermal - Rabbit - 2,000 - 2,991	Inhalation - Rat - 4 h - 1.15 mg/l

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Reproductive Effects	Not Applicable
Teratogenicity	Not Applicable
Mutagenicity	Not Applicable
Embryotoxicity	Not Applicable
Sensitization to Product	Not Applicable
Synergistic Products	Not Applicable
Carcinogenicity	Not Applicable

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity:

Mobility:

Degradability:

BioAccumulation:

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Aluminum Brightner

Contains:

Hazard Class and Label: Class 8, 6.1

Identification Number: 1790

Packaging Group: II

Other Shipping Info:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

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Component Name	CAS #	% by wt.	RQ (lbs.)	TPQ (lbs.)
Sulfuric Acid	7664-93-9	<20		1,000
Hydrogen fluoride	7664-39-3	<5		100

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	X	N/A	N/A	N/A

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

Component Name	CAS #	% by wt.
Hydrogen fluoride	7664-39-3	<5

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

Component Name	CAS #	% by wt.	RQ (lbs.)
Sulfuric Acid	7664-93-9	<20	1,000
2-Butoxyethanol	111-76-2	<5	5,000
Hydrogen fluoride	7664-39-3	<5	100

CALIFORNIA PROPOSITION 65:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: 3

HMIS Flammability: 0

HMIS Reactivity: 0

Additional: