

Safety Data Sheet
Aluminum Brightener

SECTION I - IDENTIFICATION

| | |
|---|---|
|  | <p>Rite-Kem, Inc. 645 Westmoreland Drive Tupelo, MS 38801 (662) 840-6060 Chemtrec :..... (800) 424-9300</p> |
|---|---|

Product Number AL-BRT
Product Name Aluminum Brightener
Synonyms
CAS Number Multiple
Date Prepared 5/28/2015
Revision Number 4/19/2018
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 |
| Specific target organ toxicity, single exposure | Category 1 |

DANGER!

GHS LABEL:



Hazard Statements

| | |
|------|------------------------------------|
| H290 | May be corrosive to metals |
| H314 | Causes severe burns and eye damage |
| H318 | Causes serious eye damage |
| H370 | Causes damage to organs |

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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. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face 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. |
| P308+311 | IF exposed or concerned: Call POISON CENTER/doctor/physician |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P321 | Specific treatment (see ... on this label). |
| P363 | Wash contaminated clothing before reuse. |
| p390 | Absorb spillage to prevent material damage. |
| 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 |
|-------------------|-----------|------------|-------------------------------|-------------------------------|
| Hydrogen fluoride | 7664-39-3 | | 3.0 ppm | 0.5 ppm |
| Sulfuric Acid | 7664-93-9 | | 1 mg/m ³ (Ceiling) | 1 mg/m ³ (Ceiling) |

SECTION IV - FIRST AID MEASURES

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.

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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: Water fog, foam, CO₂, dry chemical.

Special Fire Fighting Procedures Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

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: Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Notify proper authorities.

Methods for Cleaning Up: Cover with sodium bicarbonate or a soda ash/slaked lime mixture (50/50). Mix and add water if necessary to form a slurry and complete neutralization. Scoop up slurry and wash site with soda ash solution.

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- Keep containers tightly closed when not in use.
- If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

| Component Name | CAS # | OSHA PEL | ACGIH TLV |
|-------------------|-----------|-------------------------------|-------------------------------|
| Hydrogen fluoride | 7664-39-3 | 3.0 ppm | 0.5 ppm |
| Sulfuric Acid | 7664-93-9 | 1 mg/m ³ (Ceiling) | 1 mg/m ³ (Ceiling) |

Engineering Controls: Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

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Monitoring: Follow accepted work practices for handling a corrosive material.

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 solvent resistant gloves. 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

| | |
|----------------------------------|-------------------------|
| Appearance | Colorless Liquid |
| Odor | Strong Pungent |
| pH@25°C | 1.08 |
| Melting/Freezing Point | No Data Available |
| Flashpoint | No Data Available |
| Specific Gravity | 1.1885 |
| Solubility | Soluble |
| Auto-Ignition Temperature | No Data Available |
| Decomposition Temperature | No Data Available |
| VOC Content | No Data Available |
| Odor Threshold | |
| Boiling Range | No Data Available |
| Evaporation Point | 2.0 (Butyl Acetate = 1) |
| Flammable Limits - Upper | No Data Available |
| Flammable Limits - Lower | No Data Available |
| Vapor Pressure | 160 mmHg @ 20°C |
| Vapor Density (Air=1) | 1.267 |
| Viscosity | No Data Available |

SECTION X - STABILITY AND REACTIVITY

Stability: Stable

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

Hazardous Decomposition/Byproducts: Reaction with reactive metals may produce flammable hydrogen; reaction with bases can be violent and produces extreme heat.

Hazardous Polymerization: Will not occur.

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Polymerization Conditions to Avoid: None

Incompatibilities: Strong Oxidizers and bases
Metals

SECTION XI - TOXICOLOGICAL INFORMATION

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

Inhalation: Can cause damage to nasal and respiratory passages.

Eye Contact: Will cause severe burns on contact and will damage the eyes.

Skin Contact: Causes burns, possible deep ulceration.

Ingestion: Causes severe damage to mucous membranes and deep tissues, a result in death on penetration to vital areas.

Toxicity:

| Component Name | LD50 | LC50 |
|-------------------|-------------------------|--|
| Hydrogen fluoride | Not Established | Not Established |
| Sulfuric Acid | Oral - rat - 2140 mg/kg | Inhalation - mouse - 320 mg/m ³ /2H; Inhalation - rat - 51- |

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

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

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SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, state, and local regulations.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Corrosive Liquid
Contains: Hydrofluoric Acid
Hazard Class and Label: 8
Identification Number: UN1760
Packaging Group: III
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:

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

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

| Acute | Chronic | Fire | Pressure | Reactive |
|-------|---------|------|----------|----------|
| X | X | | | X |

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

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

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

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

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

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Additional:

Specification Information

Department issuing data sheet: Quality Control

Email address: customerservice@ritekem.com

Training necessary: Follow product use instructions listed on the label. Any additional questions, contact Customer Service at 662-840-6060 or email customerservice@ritekem.com.

Disclaimer:

The information in this Safety Data Sheet and product label is believed to be accurate and reliable as of the date issued. Rite-Kem makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. Accordingly, Rite-Kem will not be responsible for damages resulting from use of or reliance upon this information. The user is responsible for determining whether the Rite-Kem product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application on a Rite-Kem product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Rite-Kem product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.