



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/28/2008 REVISION NUMBER: 2  
DATE PRINTED: 11/11/2008 PREPARED BY: EH&S DEPARTMENT

### 1. CHEMICAL PRODUCT

PRODUCT NAME: **ALUMINUM BRIGHTENER**  
PRODUCT CODE: 118719

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 3/3 Fire: 0/0  
Reactivity: 2/2 Special/Protective Equipment: Acid/C

NAME OF THE MANUFACTURER: Rochester Midland Corporation  
333 Hollenbeck Street  
Rochester, New York 14621  
Information: 585-336-2200  
Emergency Phone:  
INFOTRAC: 1-800-535-5053  
OUTSIDE US: 1-352-323-3500

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

**INGESTION:** Severe burns to mucous membranes of mouth, throat and digestive tract. May be fatal if swallowed.

**SKIN CONTACT:** Causes severe burns.

**INHALATION:** Causes severe respiratory irritation. Possible damage to mucous membranes of nose and throat.

**EYE CONTACT:** Causes severe eye burns. May cause permanent eye damage. May cause blindness.

**CHRONIC EFFECTS:** Dermatitis. Possible respiratory damage from inhalation of dust or mist.

**EFFECTS/CARCINOGENICITY:** Contains an ingredient which has been determined by NTP to be an animal carcinogen with no known relevance to humans.

**CARCINOGENIC INGREDIENTS:** The International Agency of Research (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a suspected human carcinogen.

**ROUTES OF ENTRY:** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Sulfuric acid 7664-93-9	20 - 30	0.2 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Phosphoric acid 7664-38-2	10 - 20	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Hydrofluoric acid 7664-39-3	< 1	0.5 ppm 2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup> 3 ppm
Ethylene glycol butyl ether 111-76-2	1 - 5	20 ppm	240 mg/m <sup>3</sup> 50 ppm

### 4. FIRST AID MEASURES

**INGESTION:** DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Get immediate medical attention. Never give anything by mouth to an unconscious person.

**SKIN:** Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation or burns develop.

**INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

## ALUMINUM BRIGHTENER

### 4. FIRST AID MEASURES

**EYES:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**NOTES TO PHYSICIAN:** None.

### 5. FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (F):** None (C): NA  
**METHOD:** None

#### FLAMMABLE LIMITS IN AIR

- LOWER (%): None  
- UPPER (%): None

**SENSITIVITY TO MECHANICAL IMPACT(Y/N):**  
**SENSITIVITY TO STATIC DISCHARGE:**  
**SUITABLE EXTINGUISHING MEDIA:**

NO  
Sensitivity to static discharge is not expected.  
Product will not burn. Carbon dioxide. Dry chemical. Use of water may cause spattering.  
Corrosive material. Avoid exposure to mist and splashes. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray.

#### FIRE FIGHTING PROCEDURES:

### 6. ACCIDENTAL RELEASE MEASURES

#### SPILL PROCEDURES:

**SMALL SPILLS:** Reclaim as much as possible. Flush residue with water.  
**LARGE SPILLS:** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

**PERSONAL PRECAUTIONS:** NA  
**ENVIRONMENTAL PRECAUTIONS:** NA  
**METHODS FOR CLEANING UP:** NA

### 7. HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

DANGER: Concentrated acidic liquid. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store only in original container and keep closed. Store in a cool, dry area. Store in a well ventilated area. Always add only small amounts of product to water at any one time, while continuously stirring. Mix only with cool water. Do not store near heat, sparks or flame.

#### OTHER PRECAUTIONS:

Do not reuse container. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Read and follow label instructions. Keep out of reach of children.

**SPECIFIC USE(S):** NA

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PROTECTIVE EQUIPMENT:



#### EXPOSURE CONTROLS: RESPIRATORY PROTECTION:

Use in a well ventilated area.  
None normally required. Use NIOSH approved acid respirator with dust/mist filter if spray mist in air exceeds exposure limits.

#### PROTECTIVE GLOVES:

Rubber or plastic gloves recommended to minimize skin contact.

#### EYE PROTECTION:

Goggles. Face shield.

#### OTHER PERSONAL PROTECTION EQUIPMENT:

Rubber boots. Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible.

#### VENTILATION:

Local exhaust ventilation recommended. Corrosion resistant equipment recommended.

## ALUMINUM BRIGHTENER

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Mild odor. Clear. Yellow. Light amber liquid.
BOILING POINT (F):	Above 212 F (C) NA
VAPOR PRESSURE:	NA
VAPOR DENSITY (AIR=1):	NA
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.20 - 1.22
VOC Content (%):	NE
VOV Content (%):	NE
EVAPORATION RATE:	Unknown
PH:	< 1

### 10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Carbon Dioxide. Carbon Monoxide.
INCOMPATIBILITY (MATERIALS TO AVOID):	Avoid contact with: Alkalines. Chlorine containing materials. Peroxides. Reducing agents. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source.
CONDITIONS/HAZARDS TO AVOID:	None.

### 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	NE
EFFECTS OF CHRONIC EXPOSURE:	NE
OTHER TOXIC EFFECTS:	NE

### 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	NA
PERSISTENCE/DEGRADABILITY:	NA
BIOACCUMULATIVE POTENTIAL:	NA
OTHER ADVERSE EFFECTS:	NA

### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Dispose in accordance with Federal, State and Local regulations.
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### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

### 15. REGULATORY INFORMATION

## ALUMINUM BRIGHTENER

### 15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Sulfuric acid 7664-93-9	20 - 30	Listed	Listed	Listed	Not Listed
Phosphoric acid 7664-38-2	10 - 20	Listed	Listed	Listed	Not Listed
Hydrofluoric acid 7664-39-3	< 1	Listed	Not Listed	Listed	Not Listed
Ethylene glycol butyl ether 111-76-2	1 - 5	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Sulfuric acid 7664-93-9	20 - 30	1000 lb 454 kg	1000 lb RQ Listed	Listed
Phosphoric acid 7664-38-2	10 - 20	2270 kg 5000 lb	Not Listed	Not Listed
Hydrofluoric acid 7664-39-3	< 1	100 lb 45.4 kg	100 lb RQ Listed	Listed
Ethylene glycol butyl ether 111-76-2	1 - 5	Not Listed	Not Listed	Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Sulfuric acid 7664-93-9	20 - 30	Listed
Phosphoric acid 7664-38-2	10 - 20	Listed
Hydrofluoric acid 7664-39-3	< 1	Listed
Ethylene glycol butyl ether 111-76-2	1 - 5	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
Sulfuric acid 7664-93-9	20 - 30	Listed
Phosphoric acid 7664-38-2	10 - 20	Listed
Hydrofluoric acid 7664-39-3	< 1	Listed
Ethylene glycol butyl ether 111-76-2	1 - 5	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Sulfuric acid 7664-93-9	20 - 30	Listed
Phosphoric acid 7664-38-2	10 - 20	Listed
Hydrofluoric acid 7664-39-3	< 1	Listed
Ethylene glycol butyl ether 111-76-2	1 - 5	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

## ALUMINUM BRIGHTENER

PRODUCT COMPOSITION CAS#	%	PARTK:
Sulfuric acid 7664-93-9	20 - 30	Listed
Phosphoric acid 7664-38-2	10 - 20	Listed
Hydrofluoric acid 7664-39-3	< 1	Listed
Ethylene glycol butyl ether 111-76-2	1 - 5	Listed

### 16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

\*\*\* END OF MSDS \*\*\*