

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT INFORMATION and COMPANY IDENTIFICATION

Product Name: **ALUMINUM BRIGHTENER**

Product Use: Liquid Detergent

Supplier: **Kemper Industries, Inc.**
P.O. Box 1172
2197 Stanton Rd.
Daphne, AL 36526

In Case of Emergency

CHEMTREC 800-424-9300
HANDLING 251-626-3083
TECHNICAL 866-536-4225

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Sulfuric Acid	CAS# 7664-93-9	OSHA PEL: 1.5 mg/m ₃ - 8 HR. ACGIH TLV 1.5 mg/m ₃ - 8 HR.
Ammonium Bifluoride	CAS# 7664-38-2	OSHA PEL: 1.5 mg/m ₃ - 8 HR. ACGIH TLV 1.5 mg/m ₃ - 8 HR.

SECTION 3 - HAZARDS IDENTIFICATION

Appearance: Clear liquid

Odor: Pungent

*** EMERGENCY OVERVIEW***

May cause severe eye irritation, burns. May cause severe skin irritation.

Health Effects Eyes: May cause severe irritation or burns. Prolonged or repeated eye contact may cause irreversible damage or blindness

Health Effects Skin: Prolonged contact may cause irritation and corrosion of skin.

Health Effects Inhalation: Inhalation may cause irritation coughing, choking and chills. Breathing large amounts may be harmful.

Health Effects Ingestion: Ingestion may cause damage to mucous membranes, nausea, vomiting, shock symptoms (rapid pulse, sweating collapse).

(Continued on page 2)

SECTION 4 - FIRST AID MEASURES

- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Call a physician.
- Skin:** For skin contact remove contaminated clothing, flush exposed area with large amounts of water. If irritation persists, get medical attention.
- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
- Ingestion:** Do not induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash Point:** N/A
- Flammable Explosive Limits:** Lower: N/A Upper: N/A
- Extinguishing Media:** CO₂ Dry Chemical Foam Water Fog
- Unusual Fire and Explosion Hazards:** None Known.
- Special Fire Fighting Procedures:** None Known.
- Protective Clothing:** Be sure to use an approved/certified respirator or equivalent.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Small Spill:** Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material.
- Large Spill:** Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dyke area of spill to prevent spreading, pump liquid to salvage tank. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate.
- Waste Disposal Method:** Deposit spills in a landfill in accordance with local, state, and federal regulations.

(Continued on page 3)

SECTION 7 - HANDLING AND STORAGE

Handling: Do not take internally. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Avoid contact with eyes, skin and clothing. Avoid inhalation of dusts or vapors. Wear appropriate chemical protective clothing and equipment. Always wash thoroughly after handling.

Storage: Keep from freezing. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation recommended.

Respiratory Protection: Where excess concentration of product is expected, a NIOSH approved air supplied respirator is advised in absence of proper environmental control.

Eye Protection: Splash proof goggles where possible eye contamination exists.

Skin Protection: Wear rubber gloves that are chemically resistant to this product.

Other Protective Clothing or Equipment: Wear boots, gloves, apron, etc. sufficient to prevent bodily contact. Eye bath, safety shower & washing facilities should be available.

Hygienic Practices: Avoid contact with eyes, skin and clothing. Avoid inhalation of contaminant. Wash thoroughly after handling. Do not eat, drink, use tobacco products, chew gum or apply cosmetics in area where there is potential for exposure to this material.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
--

Boiling Point:	212°F
pH:	2.0
Specific Gravity:	1.339
Freeze Point:	0°C (32°F)
Vapor Pressure:	N/D
Vapor Density:	Heavier than air
Solubility in Water:	Complete

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Incompatibility: Inorganic bases metals/metal blends.

Hazardous Decomposition: Oxides of phosphorus.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION
--

No information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No data is available on finished product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with all local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Compound, Cleaning, Liquid (Sulfuric Acid) 8, NA1760, PG III, ERG 154

DOT Technical Name: N/A

DOT Hazard Class: 8

DOT UN/NA Number: NA 1760

SECTION 15 - REGULATORY INFORMATION

All components of this product are listed on the TSCA inventory.

SECTION 16 - OTHER INFORMATION

HMIS Rating: Health: 3 Flammability: 0 Reactivity: 0

The information provided in this Material Safety Data Sheet is based on characteristics of the individual components, and is correct to the best of our knowledge. However, the data is provided without guarantee or representation as to the results. Since the conditions of handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume full responsibility for loss, injury and expense arising out of the product's improper use. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any process.

Date: 01-10-10

Supersedes: 01-28-09