

Furbish of Alaska  
501 Raspberry  
Anchorage, AK 99518-1569

907-344-4184  
Emergency: 800-535-5053

MATERIAL SAFETY DATA SHEET

**SECTION I. IDENTIFICATION OF PRODUCT**

**NAME:** H.D. ALUMINUM BRIGHTENER

**Identity:** Aluminum Brightener

**MSDS Number:** 0045

**Date:** 12-1-97

**TOXICITY:** 3

**FIRE:** 0

**REACTIVITY:** 1

**PROTECTION:** D

**SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Name	CAS Number	PEL	TLV	%
Sulfuric Acid	7664-93-9	STEL 3 mg/M <sup>3</sup>	1 mg/M <sup>3</sup>	10
Hydrofluoric Acid	7664-39-3	C 3 ppm	1 ppm	10

**SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b> 212 F	<b>Specific Gravity:</b> 1.091	<b>Vapor Pressure (mm Hg.):</b> ND	<b>Melting Point:</b> ND
<b>Vapor Density: (Air = 1):</b> 1	<b>Evaporation: (H<sub>2</sub>O=1):</b> 1	<b>Water Solubility:</b> Complete	<b>pH @ 77 F:</b> <1

**Appearance and Odor:** Clear, colorless liquid, sharp odor.

**SECTION IV. FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (TCC):</b> None F	<b>LEL:</b> NE	<b>UEL:</b> NE	<b>Flammable Limits:</b>
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**Extinguishing Media:** Appropriate to fire fuel source.

**Special Fire Fighting Procedures:** Cool CLOSED containers with water spray.

**Unusual Fire and Explosion Hazards:** Extremely corrosive material, especially when heated. May liberate flammable hydrogen gas on contact with reactive metals.

**SECTION V. HEALTH HAZARD DATA**

**Route(s) of Entry:** INHALATION? Yes EYES? Yes SKIN? Yes INGESTION? No

**(Acute) Health Hazards:**

**Eyes:** Contact with eyes may cause permanent damage.

**Skin:** Contact with skin may cause permanent damage.

**Ingestion:** Swallowing may cause permanent damage however the material is too corrosive to force down.

**Inhalation:** Fumes may irritate respiratory tract, mist should be absolutely avoided.

**(Chronic) Health Hazards:** None known.

**Signs and Symptoms of Exposure:**

**Eyes:** Immediate pronounced burning sensation.

**Skin:** Causes burns which may not be immediately painful or evident. React if feeling of wetness is noted.

**Ingestion:** Immediate intolerable burning in mouth.

**Inhalation:** Coughing, burning sensation in nose

**Medical Conditions Generally Aggravated by Exposure:** Preexisting disorders of contact site.

**Emergency and First Aid Procedures:**

**Eyes:** Flush eyes with large amounts of water, lifting upper and lower eyelids. If irritation persists, obtain medical attention.

**Skin:** Wash off with water. Remove contaminated clothing and wash before reuse. always keep a supply of a paste made from magnesia and glycerine. Apply magnesia paste. HYDROFLUORIC ACID EXPOSURE REQUIRES SPECIAL TREATMENT obtain medical attention.

**Ingestion:** Obtain immediate medical attention.

**Inhalation:** Remove to fresh air. If irritation persists, obtain medical attention.

## SECTION VI. TOXICITY DATA

**Carcinogenicity:** NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

## SECTION VII. REACTIVITY DATA

**Stability:** Stable

**Hazardous Polymerization Will Not Occur**

**Incompatibility (Materials to Avoid):** Alkaline materials, reactive metals.

**Hazardous Decomposition Byproducts:** Acid vapors.

## SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps to be Taken in Case Material is Released or Spilled:**

**Small Spills:** Neutralize with soda ash and mop or scrape up.

**Large Spills:** Dike area, pump up excess, neutralize remainder with soda ash, and scrape or mop up.

**Disposal:** 2 listed hazardous wastes. Consider neutralization. Follow Federal, State and Local requirements.

**Handling and Storing:** Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use. Store away from combustible materials.

**Other Precautions:** Keep out of reach of children. For industrial and institutional use only.

## SECTION IX. CONTROL MEASURES

**Respiratory Protection:** NIOSH acid mist respirator if PEL exceeded.

**Ventilation:** Sufficient to keep PEL from being exceeded.

**Local Exhaust:** If needed to keep material below PEL

**Mechanical (General):** If needed to maintain levels below PEL

**Special:** N/A

**Other:** N/A

**Protective Gloves:** Neoprene

**Eye Protection:** Face Shield

**Other Protective Clothing or Equipment:** Plastic apron, long pants and sleeves.

**Work/Hygienic Practices:** The recommendations described in this section are provided as general guidance. For minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

## SECTION X. DOT INFORMATION

Compounds, Cleaning Liquids (Hydrofluoric Acid, Sulfuric Acid), 8, NA1760, PG II

Quantities over 111 gallons in a single container will contain a reportable quantity of hydrofluoric acid.

Quantities over 1110 gallons in a single container will contain a reportable quantity of sulfuric acid.

## SECTION XI. MISCELLANEOUS INFORMATION

**SARA 313:** Hydrofluoric and Sulfuric Acids are subject to the reporting requirements.

**Notice:** All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Applicable

S - May Be Absorbed Through Intact Skin

ND - No Data Available