

MATERIAL SAFETY DATA SHEET



2513 Warfield St.
Ft. Worth, TX 76106
817-625-4213 800-433-2113

DATE: 03/01/2010
Last Reviewed Date:

SECTION I: Product Identification: Liquid

PRODUCT NAME: A-400 ALUMINUM BRIGHTENER

PRODUCT DESCRIPTION: ALUMINIUM BRIGHTNER

SECTION II Hazardous Ingredients

Ingredient:	OSHA PEL	ACGIH TLV	%
● Hydrofluoric Acid CAS# 007664-39-3	3 PPM	3 PPM	11.0%
● Phosphoric Acid CAS# 7664-38-2	1MG/M3	1MG/M3	9.0%
● 2-Butoxyethanol CAS# 111-76-2	25ppm	120mg/m3	

SECTION III Health Hazard Data

Health Hazard (Acute)

Eyes: Major potential hazard. Undiluted product in the eye can cause severe destruction and possible blindness. These effects can occur rapidly affecting all parts of the eye. Mist can cause irritation when product is used undiluted.

Skin: Major potential hazard. Prolonged skin contact with undiluted product can cause irritation and chemical burns which may become apparent for several hours. Brief contact with undiluted product may cause slight reddening. More prolonged and widespread contact, as with chemical-saturated clothing, may cause itching, swelling and possible damage to the skin.

Inhalation: Vapors from undiluted product may cause irritation to the nose, throat, and respiratory tract. Inflammation, destruction of nasal passages and breathing difficulties can occur with prolonged overexposure of vapors or mist.

Ingestion: Ingestion of this product may result in burns of the mouth, esophagus and stomach. Nausea, pain and vomiting frequently occur.

Health Hazard (Chronic)

Skin: The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

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SECTION III (con't)

Inhalation: Prolonged and repeated overexposure may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness. May also cause hemolysis of the red blood cells leading to possible liver and kidney damage.

Signs and Symptoms Or Exposure: Irritation as noted above. This product may not produce an immediate burning sensation upon skin contact, delaying the awareness of the person that contact has occurred.

Aggravated Medical Conditions: Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product.

First Aid:

Eyes: Flush eyes immediately with large amounts of water (preferably with an eye wash fountain), lifting the upper and lower eyelids occasionally. Continue washing for a minimum of 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing immediately and wash skin thoroughly for a minimum of 15 minutes under a safety shower. Always have a 0.13% Zephiran Chloride solution and distilled water on hand to treat accidental skin contact. Do not use Zephiran Chloride solution on eyes. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Seek medical attention.

Ingestion: If person is conscious, give two glasses of water. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention.

SECTION IV Special Protection Information

Respiratory Protection: If exposure exceeds occupational exposure limits (see sec. II) use a NIOSH approved respirator.

Ventilation Required: Use only with ventilation sufficient to prevent exceeding recommended exposure limit. Use corrosion-proof equipment.

Protective Clothing

Eyes: Use chemical resistant glasses or goggles.

Skin: Use chemical resistant clothing to prevent undue bodily contact. Have on hand 0.13% Zephiran Chloride solution and distilled water to treat accidental skin contact.

Additional Protective Measures: Eye wash and safety shower.

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SECTION V Fire & Explosion hazard Data

Flash Point (Method Used): none (COC)

Flammable Limits (% Volume in Air)

Upper: Not applicable

Lower Not applicable

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Fire fighters should wear a self contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: Containers should be cooled with water if exposed to intense heat from fire which could result in container failure.

SECTION VI Physical Data

Specific Gravity (Water)=1: 1.07

Vapor Pressure (mm Hg): Not determined

Vapor Density (Air= 1): Not determined

Percent Volatile by Volume: 80%

Evaporation Rate (Butyl Acetate= 1): Not determined

Appearance and Odor: Clear Amber Liquid, strong odor

Boiling Point: 214 deg F.

Melting Point: not available

pH: 1.5

Solubility in Water @ 77 deg. F. complete

SECTION VII Reactivity Data

Stability: Stable

Incompatibility: Strong oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and other unidentified organic compounds may be formed during combustion.

Hazardous Polymerization: Will not occur

SECTION VIII Spill and Leak Procedures

Steps to be Taken if Material released or Spilled: Collect large spills for disposal. Flush small spills with water

Waste Disposal Method: Recovered liquid or solids may be sent to a licensed reclaimed or disposed of in a permitted waste management facility Follow all Federal, State and local regulations.

Precautions to be taken in Handling and Storage: Avoid contact with eyes. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

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SECTION VIII (con't)

Other Precautions: Protect container from physical damage and store in a cool dry area. Do not transfer product into an unmarked container

SECTION IX D.O.T. Shipping Information:

Proper Shipping Name: Hydrofluoric Acid Mixture

Hazard Class: PGII, POSION

ID Number: UN1790

Label Requirements: HM Compound, Corrosive Liquid, Poison, 8.n.o.s., UN1790, PGII, (Contains Hydrofluoric Acid)

SECTION X S.A.R.A. Information:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Chemical Name	% BY WEIGHT
Hydrofluoric Acid CAS# 007664-39-3	11.0%
Phosphoric Acid CAS# 007664-38-2	9.0%
2-Butoxyethanol CAS# 111-76-2	

Data and information given in this document is accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this product, as this is beyond our control.

The health hazards given on this Material Safety Data Sheet apply to this product in its' concentrated form (as supplied) and may differ significantly at use dilution levels. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.