



ALUMINUM BRIGHTENER SAFETY DATA SHEET

1. IDENTIFICATION

Product Name Aluminum Brightener
 Product Code 24-44
 Recommended Use Acid based Wheel Cleaner & Aluminum Brightener
 Manufacturer Nano Liquid: 2244 Faraday Ave, Suite 148, Carlsbad, CA 92008 - (760) 444-6070
 Emergency Phone Number (760) 444-6070

2. HAZARD IDENTIFICATION

Classification of Substance Mixture

Classification of Substance Mixture Danger, Corrosive Poison

Health Statements H30: Harmful if swallowed
 H315: Causes skin Irritation
 H319: Causes serious eye Irritation
 H332: Harmful if inhaled

Exposure Routes Inhalation, Skin Absorption, Skin contact, Eye Contact, Ingestion

Eye Contact Causes serious eye irritation. Symptoms include stinging, tearing, redness, and blurred vision.

Skin Contact Causes skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying, cracking and possible tissue damage.

Inhalation Can cause gastrointestinal irritation, burns, nausea, vomiting, diarrhea and death. Aspiration of material into lungs may cause chemical pneumonitis.

Ingestion Excessive inhalation of vapors and mist can cause severe tissue damage, even death.

Precautionary Statements Keep out of the reach of children Wear protective gloves, eye protection, apron and vapor respirator fitted with an acid gas cartridge when using product.

Storage/Disposal Dispose of according to local, regional and/or national regulations.

Other Hazard None

Other Information

HMS	
Health Hazard	3 - Serious
Flammability Hazard	0 - Minimal
Reactivity Hazard	1 - Slight
Personal Protection	D + p

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS	CAS	%
Sulfuric Acid	7664-93-9	1-10
Hydrofluoric Acid	7664-39-3	< 1
Phosphoric Acid	7664-38-2	1-10

4. FIRST AID MEASURES

Description Of First Aid Measures

Inhalation Remove to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration and get immediate medical attention. Person should be examined by a physician and held under observation for 24 hours.

Skin Wash with soap and water. Remove contaminated clothing and wash before re-use. Get medical attention if irritation persists.

Eye Rinse cautiously with water for several minutes. Remove contact lenses, if present & easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

Ingestion Do not Induce vomiting. If conscious, give two glasses of water. Follow with Milk of Magnesia. Get immediate medical attention. If spontaneous vomiting occurs, keep airway clear.

Most important systems and effects, both acute and delayed

Note Product is irritating to skin and mucous membranes. Product is a calcium seeker. Always wear protection (eye goggles, nitrile gloves, organic vapor respirator, rubber boots and rubber apron) when using product.

Indication of any immediate medical attention and special treatment needed

Note to Physician Treat inhalation as chemical pneumonia. Monitor for hypocalcemia. 2.5% Calcium Gluconate in normal saline by nebulizer or by IPPB with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media CO₂, dry chemical, foam, water fog, water spray

Unsuitable Extinguishing Media None

Special Hazards Arising From The Substance Or Mixture

Unusual Fire and Explosion Hazards None

Hazardous Combustion Products Combustion may produce Carbon Monoxide, CO₂ and potentially irritating fumes.

Advice for firefighters Wear approved SCBA with full facepiece operated in positive pressure demand mode. Hazardous Polymerization is not expected to occur. Avoid contact with strong oxidizing agents and strong acids

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures

Personal Precautions Large spills (100 gallons or more) wear protective equipment including rubber boots, gloves, goggles & apron.

Emergency Procedures Isolate spill or leak to prevent entering storm drains.

Environmental Precautions Avoid run off to waterways and storm drains.

Methods And Materials For Containment And Clean Up

Containment / Clean up Measures Stop leak if you can do it without risk. Dike ahead of liquid spill to prevent entering storm drains. Absorb and transfer to containers.

For more information, please contact your Nano Liquid Sales Consultant or Customer service at (760) 444-6070 • nanoliquid.net



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7. HANDLING AND STORAGE

Precautions For Safe Handling

Handling.....Product is slippery. If product is spilled onto floor, clean area to prevent slipping.

Conditions For Safe Storage, Including Any Incompatibilities

Storage.....Store in a cool, dry place. Keep away from oxidizers.

Incompatible Materials or Ignition Sources.....Keep away from oxidizers and strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls

Engineering Measures / Controls.....Use in well ventilated area. If used in an enclosed area, provide fans or other mechanical means to provide adequate ventilation.

Personal Protective Equipment.....NIOSH approved acid gas cartridge respirator, chemical splash goggles, nitrile gloves, rubber apron, and rubber boots.

General Industrial Hygiene Considerations.....Clean protective gear after use. Rinse with water and allow to dry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Physical and Chemical Properties

Physical Form.....Liquid	Appearance.....Thin, Soapy Liquid
Color.....Clear	Odor.....Acidic
Taste.....Data Lacking	Particulate Type.....N/A
Particulate Size.....N/A	Aerosol Type.....N/A

General Properties

Boiling Pt.....212° F	Melting Point.....Data Lacking
pH.....0.5–1.5	SG / Density.....1.03–1.05
Water Solubility.....100%	VOC.....0 grams/Liter

10. STABILITY AND REACTIVITY

Reactivity.....No dangerous reaction known under conditions of normal use.

Chemical stability.....Stable under normal temperatures and pressures.

Possibility of hazardous reactions.....Hazardous polymerization is not expected to occur.

Conditions to Avoid.....Avoid contact with strong alkaline solutions, oxidizers, powdered metals & organic materials.

Hazardous Decomposition.....Combustion may emit toxic, corrosive fumes of Hydrogen Fluoride, Sulfur Dioxide & Fluorine Gas.

11. TOXICOLOGICAL INFORMATION

Sulfuric Acid.....CAS# 7664-93-9

Routes of Entry.....Absorbed through skin. Dermal contact. Eye contact.

Toxicity to Animals.....Acute oral toxicity (LD50): 4280 mg/kg (Rat.) Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive).

Hydrofluoric Acid.....CAS# 7664-39-3

Routes of Entry.....Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals.....Acute toxicity of the vapor (LC50): 342 1 hours [Mouse].

Chronic Effects on Humans.....May cause damage to the following organs: lungs, mucous membranes, skin, eyes, bones, teeth.

Other Toxic Effects on Humans.....Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion

NOTES TO PHYSICIAN.....Treat inhalation as chemical pneumonia. Monitor for hypocalcemia. 2.5% Calcium Gluconate in normal saline by nebulizer or by IPPB with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered.
For burns of large skin areas, (> 25 square inches), for ingestion and for significant inhalation exposure, severe systemic effects may occur. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia and hyperkalemia. In some cases renal dialysis may be indicated. For certain burns, especially of the digits, use of intra-arterial Calcium Gluconate may be indicated.

12. ECOLOGICAL INFORMATION

Sulfuric Acid, Phosphoric Acid & Hydrofluoric Acid.....Very toxic to aquatic life. Do not allow product into streams, storm drains or other bodies of water.

13. DISPOSAL CONSIDERATIONS

Disposal.....Dispose of according to local, state and federal regulations.

14. TRANSPORT INFORMATION

Shipping Name.....Corrosive Liquids, Poisonous, n.o.s. (Hydrofluoric acid and Sulfuric Acid) 8

UN Listing.....III

Constituent.....Hydrofluoric Acid, Sulphuric Acid

15. REGULATORY INFORMATION

SARA 302 Components.....Sulfuric Acid, Phosphoric Acid and Hydrofluoric Acid are reportable under requirements of SARA Title III, Section 302.

SARA 313 Components.....This material contains Sulfuric Acid, Phosphoric Acid, and Hydrofluoric Acid. Reportable quantity is 1000 lbs of Sulfuric Acid, 1000 lbs for Phosphoric Acid and 100 lbs for Hydrofluoric Acid.

California Prop. 65.....This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA.....Sulfuric Acid, Phosphoric Acid, and Hydrofluoric Acid are listed on TSCA. Reportable quantity is 1000 pounds of Sulfuric Acid, 1000 lbs of Phosphoric Acid and 100 lbs for Hydrofluoric Acid.

16. OTHER INFORMATION

Dated.....December 4, 2015

WARNING.....This information contained in this SDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safe: Read this safety information and forward it to all persons who may be exposed to this product.



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