

## Material Safety Data Sheet Aluminum Brightener SF Conc.

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Aluminum Brightener SF Conc.	
<b>Product Number</b>	NTA ABSF	
<b>Manufacturer/ Supplier</b>	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
<b>Phone Number</b>	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
<b>D.O.T. Emergency Phone:</b>	1-800-633-8253	
<b>Date of Preparation</b>	September 25, 2012	<b>Revision Number</b> 1.0

### Section 2. Hazards Identification

**Emergency overview**                      **This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

DANGER!

Keep out of reach of children.  
Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work-station location. S24/25- Avoid contact with skin and eyes.

<b>Potential Acute Health Effects</b>	Corrosive to skin and eyes on contact, liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns.
<b>Routes of Entry</b>	Eye Contact, Skin contact, Ingestion, INHALATION.
<b>Eyes</b>	Corrosive to the eyes. Liquid and mist can cause pain, and tearing, possible swelling of the conjunctiva, and corneal destruction.
<b>Skin</b>	Corrosive to the skin. Can cause severe chemical burns and possible ulceration.
<b>Inhalation</b>	Inhalation may severely burn respiratory tract. Irritating to mucous membranes in the nose, throat, and lungs. May cause coughing, chest pain, and difficulty in breathing, prolonged exposure may result in tissue damage.
<b>Ingestion</b>	Extremely corrosive to the mouth and throat. May result in severe chemical burns. May cause coughing, choking, headaches, and dizziness. Can cause severe abdominal pain, nausea, vomiting, and possible collapse.
<b>Medical conditions aggravated by exposure:</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Potential Chronic Health</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Target Organs</b>	
<b>Environmental Effects</b>	Not available.

### Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Ammonium Hydrogen Fluoride	7664-39-3	Proprietary		3 PPM
Phosphoric Acid	7664-38-2	Proprietary		1 MG/M3
Sulfuric Acid	7664-95-9	Proprietary		
Glycol Ether EB	111-76-2	Proprietary		

### Section 4. First Aid Measures

<b>Eye Contact</b>	Eye contact can result in corneal damage or blindness. Call a poison control center or SEEK IMMEDIATE MEDICAL ATTENTION. IMMEDIATELY flush eyes with running water for at least 15 to 20 minutes, keeping eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Repeat once or twice at 15 minute intervals. To alleviate pain until physician arrives add 2 drops of 0.5% "Pontocaine" (Withrop Lab) Hydrochloride solution into eyes. No oils or oily ointments should be used unless directed by doctor.
<b>Skin Contact</b>	Remove contaminated clothing and shoes. Wash gently and thoroughly the contaminated skin with running water and non abrasive soap for 15 to 20 minutes. Call a poison control center or SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. If breathing is difficult, give oxygen. Call poison control center or seek medical attention if symptoms persist.
<b>Ingestion</b>	Call a poison control center IMMEDIATELY for treatment advice. Have conscious person sip a glass of water if able to swallow. DO NOT induce vomiting unless instructed to do so by poison control center or doctor. DO NOT give anything by mouth to an unconscious person NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
<b>General Advice</b>	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
<b>Notes to Physician</b>	Not available

### Section 5. Fire Fighting Measures

<b>Flammability</b>	Not to be considered a fire hazard
<b>Fire Fighting Media and instructions</b>	Water spray, Foam, Carbon Dioxide
<b>Products of Combustion</b>	Not available
<b>Special Remarks on Fire Hazards</b>	The amount of vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed. Product is non-Flammable, However, it can react with metals to produce hydrogen, a flammable gas
<b>Special Remarks on Explosion Hazards</b>	The amount of vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed. Product is non-Flammable, However, it can react with metals to produce hydrogen, a flammable gas
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Discharge</b>	None
<b>Protection of Fire Fighters</b>	See special remarks on Fire Hazards

## Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Face shield. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Methods for Containment</b>	Corrosive liquid. Avoid to runoff to sewers and waterways. Water protective clothing. Absorb with inert material. Contact your local Emergency planning commission for further instructions. Absorb with an in inert material and put the spilled material in an appropriate waste disposal.
<b>Environmental Precautions</b>	Neutralize with lime and flush with water. Runoff to sewer may create a hazard in the case of large spills; Notify authorities.
<b>Methods for Clean Up</b>	DO NOT breathe vapor, get in eyes, on skin, or on clothing. Keep personnel upwind of spill and DO NOT enter area unless equipped with full protective equipment and self contained breathing apparatus.

## Section 7. Handling and Storage

<b>Precautions</b>	Store in well ventilated building or sheds. Protect against heat and physical damage. DO NOT get in eyes, no skin, on clothing. DO NOT breathe vapor. Keep container closed. Wash thoroughly after handling. Keep locked up. Keep container dry. DO NOT INGEST. Do not breathe the gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
<b>Incompatibility</b>	Strong alkalis, most metal, bleach. Alkalis incompatible with chlorinated solvents. Incompatible with alcohols and wide variety of metals
<b>Storage</b>	Corrosive materials should be stored in a separate safety storage cabinet or room. Not for use or storage in or around the home. Keep out of reach of children. For Institutional and Commercial Use

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work station location. S24/25- Avoid contact with skin and eyes.

## Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	
<b>Personal Protection</b>	Good general ventilation should be sufficient to control airborne levels. Eye wash fountain and safety shower highly recommended.
<b>Eyes</b>	Chemical safety splash goggles and Face Shield
<b>Body</b>	Rubber boots, in considerable exposure a full rubber suit should be used. Also additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
<b>Respiratory</b>	Wear appropriate U.S. Bureau of mines approved respirator.
<b>Ventilation Requirements</b>	None for normal use. Self-contained breathing apparatus for severe exposure
<b>Hands</b>	Impervious gloves
<b>Protective Clothing (Pictograms)</b>	



**Exposure Limits**

**Phosphoric Acid:** Oral (Rat) 1530 mg/kg  
**Ammonium Bifluoride:** LD50-not found  
Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Clear Liquid
<b>Molecular Weight</b>	N/A
<b>Ph</b>	0.5 to 1.0
<b>Boiling/Condensation Point</b>	212 F
<b>Melting/Freezing Point</b>	None above 32 F
<b>Critical Temperature</b>	Non applicable
<b>Instability Temperature</b>	Not applicable
<b>Specific Gravity</b>	(H2O = 1): 1.09
<b>Vapor Pressure</b>	(Non-Aerosols)(mm Hg and Temperature): N/A
<b>Vapor Density</b>	(Air = 1)
<b>Volatility</b>	N/A
<b>VOC</b>	N/A
<b>Evaporation Rate</b>	(H2O = 1): N/A
<b>Dispersion Properties</b>	N/A
<b>Solubility</b>	Complete in water
<b>The Product is:</b>	Non-Flammable, Acidic Liquid
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	Non-Flammable
<b>Flammable Limits</b>	Not applicable
<b>Fire Hazards in Presence Of Various Substances</b>	Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas
<b>Explosion Hazards in Presence of Various Substances</b>	Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas
<b>Odor</b>	Acidic
<b>Color</b>	Clear

## Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substance</b>	Strong alkalis, most metal, bleach. Alkalis incompatible with chlorinated solvents. Incompatible with alcohols and wide variety of metals
<b>Hazardous Decomposition Products</b>	Will not occur.

## Section 11. Toxicological Information

<b>Routes of Entry</b>	Skin Contact. Ingestion. Eye Contact.
<b>Toxicity to Animals</b>	Oral (Rat) LD50 1530 mg/kg (Phosphoric Acid)
<b>Acute Effects on Humans</b>	
<b>Eyes</b>	Corrosive to the eyes. Liquid and mist can cause pain, and tearing, possible swelling of the conjunctiva, and corneal destruction.
<b>Skin</b>	Corrosive to the skin. Can cause severe chemical burns and possible ulceration.
<b>Inhalation</b>	Inhalation may severely burn respiratory tract. Irritating to mucous membranes in the nose, throat, and lungs. May cause coughing, chest pain, and difficulty in breathing, prolonged exposure may result in tissue damage.
<b>Ingestion</b>	Extremely corrosive to the mouth and throat. May result in severe chemical burns. May cause coughing, choking, headaches, and dizziness. Can cause severe abdominal pain, nausea, vomiting, and possible collapse.
<b>Chronic Effects on Humans</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remark

## Section 12. Ecological Information

<b>Ecotoxicity</b>	No information found
<b>BOD5 and COD</b>	Not available
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	Not available
<b>Special Remarks on the Products of Biodegradation</b>	Not available

**Section 13. Disposal Considerations**

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Waste Stream** Not available

**Section 14. Transport Information**

**DOT (U.S.A.) (Pictograms)**



**TDG Classification** 8

**PIN UN, Proper Shipping Name, PG** Shipping Name: UN 1760, Corrosive liquid, NOS (Sulfuric Acid) 8, PGII ERG 154

**Maritime Transportation** Not a “marine pollutant”

**Special Provisions for Transport** Not available.

**Section 15. Regulatory Information and Pictograms**

**Regulatory Lists** No products were found.

**Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications** **HCS (U.S.A.)** HCS Class: Corrosive Liquid. HCS Class: Toxic.

**USA Regulatory Lists** This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)  
SARA 302 Extremely Hazardous Substances - Not listed  
SARA 311 - 1. Immediate (acute) health hazard  
SARA 313 Toxic Chemical List – Not listed

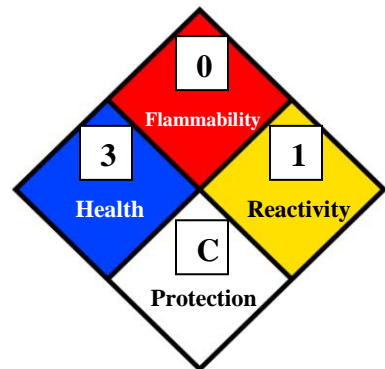
**DSD (EEC)** R22- Harmful if swallowed.  
R35- Causes severe burns.

**International Regulations Lists** No Products were found.

**Hazardous Material Information System (U.S.A.)**



**National Fire Protection Association (U.S.A.)**



**WHMIS (Classification)** WHMIS CLASS E: Corrosive Liquid. WHMIS CLASS D-1: Material causing immediate and serious toxic effects.

