

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminum Brightener ABX  
Description: Acidic Liquid  
Product Code: NTA ABABX  
Suggested Use: Liquid Rust Remover  
Restrictions on Use: None

Supplier: NuTech Specialties, Inc.  
9811 South 6150 West  
West Jordan, UT 84081  
Telephone: 801-253-1000 (M-F) 8:00-5:00  
Fax: 801-280-0307  
Emergency Phone: 800-633-8253

## 2. HAZARDS IDENTIFICATION

### Classification:

GHS Classification: Acute Toxicity 4  
Skin Corrosion 1  
Serious Eye Damage/Eye Irritation 1  
Specific Target Organ Systemic Toxicity (single exposure) 3

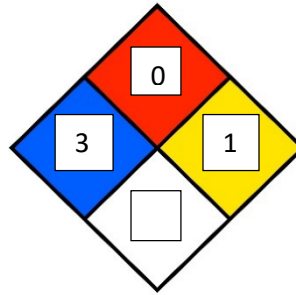
### GHS Label Elements

#### Pictogram:



Signal Word: Danger  
Hazard Statements: H314, Causes Severe Skin Burns and Eye Damage  
H335, H336, May cause respiratory irritation. May cause drowsiness or dizziness.  
Precautionary Statements: P261, Avoid breathing dust/fume/gas/mist/vapors/spray  
P280, Wear protective gloves/protective clothing/ eye protection.  
P305, P351, P338, If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.  
P310, Immediately call a POISON CENTER or doctor/physician.

HMIS Classification:



NFPA Rating:

Health	3
Fire	0
Reactivity	1
Personal Protection	C

Potential Health Effects:

Harmful if ingested or absorbed through the skin

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	Concentration
Phosphoric Acid	7664-38-2	20-30%
Ammonium Biflouride	1341-49-7	5%

Synonyms:

### 4. FIRST AID MEASURES

If Inhaled: P304, P340, If INHALED: If breathing is difficult, remove victim to fresh air and at rest in a position comfortable for breathing.  
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced

Skin Contact: P303, P361, P353, If on SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.

Product: Aluminum Brightener ABX

Eye Contact: P305, P351, P338, If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Immediately call a doctor or physician.

If Ingested: P301, P330, P330, If SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P301, P310, If SWALLOWED: Immediately call POISON CENTER or doctor/physician  
Do not induce vomiting unless instructed to do so by physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

## 5. FIREFIGHTING MEASURES

Extinguishing Media: Use water-spray, alcohol resistant foam, dry chemical, or carbon dioxide. Neutralize with soda ash or slaked lime

Hazardous Combustion Products: Firefighting personnel should respond with appropriate protective clothing, firefighting gear, and breathing equipment as trained.

Special Protective Equipment for Firefighters: In fire conditions: a complex mixture of airborne solids, liquids, and gases including Carbon Monoxide, Carbon Dioxide, and unidentified organic compounds. In event of a fire, wear full protective clothing with NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving Hydrochloric Acid. Stay away from ends of tanks. Cool tanks with water spray until well after fire is out.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Always ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions: Contain and recover liquid when possible. Do not let product enter drains. Neutralize with alkaline material (soda ash, lime) then absorb with an inert material (e.g., vermiculite, dry sand, earth) and place in chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

Containment and Clean Up: Soak up with inert absorbent material and dispose of. Keep in suitable, closed containers for disposal.

Product: Aluminum Brightener ABX

## 7. HANDLING AND STORAGE

Safe Handling: Keep away from flames and hot surfaces. Use personal protective equipment. Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials. Do not freeze.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	OSHA
Ammonium Bifluoride	1341-49-7	2.5(f)mg/m <sup>3</sup>	OSHA

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

### Personal Protective Equipment

Eye Protection: Tightly fitting safety glasses or goggles should be sufficient. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical resistant gloves. Gloves must be inspected prior to use. Wash and dry hands after use.

Skin Protection: Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full face respirator with appropriate cartridges. Always ensure adequate ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Blue-Green Liquid
Color:	Blue-Green
Odor:	Acidic
Odor Threshold:	N/D
pH:	1

Product: Aluminum Brightener ABX

Melting/Freezing Point:	32° F
Boiling Point:	212° F
Flash Point:	None
Evaporation Rate:	N/A
Flammability (Solid, Gas):	None
Flammability/Explosion Limits:	None
Vapor Pressure @ 20°C:	N/A
Vapor Density:	N/A
Specific Gravity:	1.1
Density:	9.2
Solubility in Water:	Complete
Partition Coefficient:	No data available
Auto Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity @ 15°C:	N/A

## 10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions and Materials to Avoid:	Incompatible materials: A strong mineral acid, cyanides, sulfites and formaldehyde.
Hazardous Decomposition Products:	Emits toxic fumes of hydrogen flouride

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity- Harmful if swallowed

Component	CAS Number	Test	Toxicity
Phosphoric Acid	7664-38-2	Oral LD50 Rat	1530 mg/kg
Ammonium Biflouride	1341-49-7	Oral LD50 Rat	1276 ppm

Potential Health Effects

Inhalation:	Corrosive! Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, and in severe cases, pulmonary edema, circulatory failure, and death.
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Product: Aluminum Brightener ABX

Skin: Corrosive! Can cause redness, pain, and severe skin burns. Concentrated solutions can cause deep ulcers and discolor skin.

Eyes: Corrosive! Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

Ingestion: Corrosive! Swallowing hydrochloric acid can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, and diarrhea. Swallowing may be fatal.

Signs and Symptoms of Exposure: Stomach pain and vomiting

Chronic Effects of Long Term Exposure: Overexposure to fluoride can cause calcification of bones

Carcinogenicity: Not a carcinogen

## 12. ECOLOGICAL INFORMATION

### Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Phosphoric Acid	7664-38-2	N/A	
Ammonium Bifluoride	1341-49-7	N/A	

### Ecological Effects

Persistence and Degradability: When released into soil, material will leach into ground water.

Bioaccumulation Potential: No further relevant material available

Mobility in Soil: Leach readily into soil

Other Adverse Effects:

## 13. DISPOSAL CONSIDERATIONS

Disposal: Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region.

Contaminated Packaging: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT Information

Proper Shipping Name: Corrosive Liquids, N.O.S  
UN Number: UN1760  
Hazard Class: 8  
Packing Group: PGII  
Reportable Quantity (RQ): 5000#  
Marine Pollutant: No  
Note:

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## 15. REGULATORY INFORMATION

### US Federal

SARA 302 Components: None  
SARA 311/312 Hazards: Acute health  
SARA 313 Components: None  
TSCA Inventory: Yes

### European Union

EC Inventory: Yes

### State Regulations

Utah Clean Air: Yes

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## 16. OTHER INFORMATION

SDS Version: 1.0  
Revision Date: 05/05/2015  
Supercedes: New to GHS

### Notice to Reader:

Product: Aluminum Brightener ABX

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or the completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

NuTech Specialites, Inc.

**Validated on:**

Product: Aluminum Brightener ABX