

**SAFETY DATA SHEET**

**1. Product and Company Identification**

<b>Product Name</b>	<b>ALUMA-BRITE</b>
<b>Product Number</b>	<b>584</b>
<b>Product Type</b>	Mixture
<b>Product Use</b>	Aluminum cleaner and brightener
<b>Manufacturer/Supplier</b>	National Purity 6840 Shingle Creek Parkway, Suite #23 Brooklyn Center, MN 55430
<b>Company Contact</b>	612-672-0022
<b>Emergency Telephone Number</b>	1-800-255-3924
<b>Email</b>	customerservice@nationalpurity.com

**2. Hazards Identification**

**GHS Classification in accordance with 29 CFR 1910 OSHA HCS**

- Flammable liquid, (Category 4) H226
- Corrosive to metals, (Category 1) H290
- Acute toxicity, Oral (Category 1) H300,
- Skin irritation, (Category 1) H314
- Eye irritation, (Category 1) H318
- Acute toxicity, Inhalation (Category 2) H330
- Carcinogenicity, (Category 1A) H350
- Toxic to reproduction(Category 1B) 360
- Specific target organ toxicity (Category 1) H370
- Chronic aquatic toxicity, (Category 1) H410

**GHS Label elements, including precautionary statements**

**Pictogram**



**Signal word**

Danger

**Hazard Statements**

H226	Flammable liquid and vapor.
H290	May be corrosive to metals.
H300	Fatal if swallowed. May cause corrosive damage to mouth, throat, or stomach.
H314	Causes severe skin burns and eye damage. Corrosive to the eyes leading to blindness.
H330	Fatal if inhaled. Lung irritation and pulmonary edema and chemical pneumonitis can occur.
H350	May cause cancer.
H360	May damage fertility of the unborn child (fetotoxic and teratogenic effects).
H370	May causes damage to eyes and central nervous system if ingested or inhaled.

Ingestion of inorganic fluorides can cause flourosis leading to brittle bones.  
Kidney injury and stomach bleeding may occur.  
Very toxic to aquatic life with long lasting effects.

H410

## Precautionary Statements

### Prevention

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces and other sources of ignition. No smoking.  
P233 Keep container tightly closed.  
P234 Keep only in original packaging.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P260 Do not breathe fumes, mists, vapors or spray.  
P271 Use only outdoors or in a well ventilated area.  
P284 In case of inadequate ventilation, use NIOSH approved respirator.  
P273 Avoid release to the environment.

### Response

P370+P378 In case of fire, use procedures proper for the primary source of the fire.  
P303+P361+P353+P363 IF ON SKIN (or hair), immediately take of all contaminated clothing and rinse skin with copious amounts of water. Shower if facilities are readily available. Wash all contaminated clothing before reuse.  
P310 Immediately call a POISON CENTER/doctor and seek medical attention.  
P301+P312+P330 IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Rinse mouth with water.  
P305+P351+P337+P310 IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present. Continue rinsing. Immediately call a POISON Center/doctor and get medical attention.  
P304+P340+P310 IF INHALED: remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P308+P311+P321 If exposed or concerned, call a POISON CENTER/doctor. See supplemental First Aid instructions in section 4.

### Storage/Disposal

P403+P235+P340 Store in a well ventilated place. Keep cool. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/federal regulations.

## 3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed . Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
Phosphoric acid	7664-38-2	H300, H314, H318, H410	30-50%
Sulfuric acid	7664-93-9	H290. H300,, H314, H330, H350, H412	20-40%
Methanol	67-56-1	H224, H300, H318, H360, H372, H402	10-15%
Ammonium hydrogen fluoride	1341-49-7	H301, H314, H332, H370,	5-15%
(Nonylphenoxy) polyethylene oxide	9016-45-9	H313, H320, H401	5-10%

## 4. First Aid Measures

### Description of First Aid Procedures

#### General Advice

Consult a physician. Show this SDS to the doctor.

**In Case of Eye Contact**

Flush with cool running water for 15 minutes. Remove contact lenses if present. Get immediate medical attention.

**In Case of Skin Contact**

Wash with soap and water and rinse thoroughly with cool running water. Remove contaminated clothing. Get immediate medical attention.

**If Ingested**

Rinse mouth with water. **Do not induce vomiting.** Obtain immediate medical attention. Never give anything by mouth to an unconscious person.

**If Inhaled**

Move person to fresh air. Immediately consult a physician.

**Notes to Physician**

Symptoms may be delayed.

**General advice**

Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

## 5. Fire-fighting Measures

**Flammable properties**

Flammable.

**Extinguishing media**

Use dry chemical, foam, carbon dioxide or water fog.

**Protection of firefighters**

Firefighters should wear protective clothing including self contained breathing apparatus

**Hazardous combustion products**

May include and not limited to oxides of carbon, and nitrogen.

**Unusual Fire, Explosion hazards**

Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated.

## 6. Accidental Release Measures

**Personal precautions**

Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing.

**Methods for containment**

Stop leak if you can do so without risk. Prevent entry into waterways, sewers.

**Methods for cleaning up**

Before attempting clean up, refer to hazard data given above. Eliminate all nearby sources of ignition and extinguish nearby heat sources and open flames. Large spills, dike area to prevent from spreading. Neutralize with alkaline material such as soda ash or lime. Absorb with non reactive absorbent and place in suitable, covered, and labeled container. Rinse area with water. Never return spill to original container.

**Environmental precautions**

Avoid spills. Keep out of waterways.

## 7. Handling and Storage

**Precautions for Safe Handling**

Use good industrial hygiene practices when handling this material. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.

**Conditions for Safe Storage**

Keep container closed when not in use. Keep out of reach of children. Keep away from heat or sources of ignition. Store locked up.

## 8. Exposure Controls and Personal Protection

**Exposure Limits**

**Ingredients**

Ingredients	CAS#	OSHA PEL	ACGIH TLV
Phosphoric acid	7664-38-2	Not available	Not available
Sulfuric acid	7664-9309	1 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> STEL
Methanol	67-56-1	200 ppm skin TWA	328 mg/m <sup>3</sup> STEL
Ammonium hydrogen fluoride	1341-49-7	Not available	Not available
(Nonylphenoxy) polyethylene oxide	9016-45-9	Not available	Not available

**Engineering controls**

Local exhaust ventilation is recommended. Ventilation system should be designed according to approved engineering standards.

**Personal protective equipment**

<b>Eye/Face protection</b>	Wear chemical safety goggles or full face shield if splash conditions exist. Have suitable eye wash water available.
<b>Hand protection</b>	Wear impermeable gloves to prevent contact with skin.
<b>Skin and body</b>	Wear impervious protective clothing including boots, gloves, and face shield where splashing is possible. Have quick drench/shower facilities in work area.
<b>Respiratory protection</b>	Use a NIOSH approved respirator when exposure guidelines are exceeded.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<b>Appearance/form</b>	Clear liquid
<b>Color</b>	Colorless
<b>Odor</b>	Alcohol odor
<b>Odor threshold</b>	Not established
<b>pH</b>	< 1(1% solution)
<b>Melting/freezing point</b>	Not established
<b>Initial Boiling point</b>	>212° F. ( 100° C.)
<b>Flash point</b>	> 52 F. (11° C.) CC
<b>Evaporation rate</b>	Not established
<b>Flammability</b>	Flammable
<b>Upper/lower flammability or Explosive limits</b>	Not established
<b>Vapor pressure</b>	Not established
<b>Vapor density</b>	Not established
<b>Specific gravity/density</b>	1.175
<b>Solubility in water</b>	Complete
<b>VOC</b>	≈ 12%
<b>% Volatile</b>	Approx34%

**Other Safety Information**

**10. Stability and Reactivity**

<b>Reactivity</b>	
<b>Chemical Stability</b>	May react violently with water spattering and releasing heat.
<b>Hazardous reactions</b>	Keep separate from organic materials. Avoid contact with alkaline materials and metals.
<b>Conditions to avoid</b>	Heat, sparks or open flame. Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong alkalais, strong oxidizing agents, metals and their anhydrides, nitrates and amines.
<b>Hazardous decomposition products</b>	May include but not limited to oxides of carbon, phosphorous, sulfur, and nitrogen.
<b>Hazardous polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Ingredients</b>	<b>LC50</b>
Phosphoric acid	1.689 mg/m <sup>3</sup> P <sub>2</sub> O <sub>5</sub>
Sulfuric acid	510 mg/m <sup>3</sup> (Inhalation-rat)
Methanol	Not available
Ammonium hydrogen fluoride	1,276 ppm/1Hr (rat-corrosive), 342 ppm/3Hr (mouse-corrosive)

(Nonylphenoxy) polyethylene oxide	Not available
<b>Ingredients</b>	<b>LD50</b>
Phosphoric acid	1,530 mg/kg ( Oral-rat), > 1,260-3,160 mg/kg (Dermal-rabbit)
Sulfuric acid	2,140 mg/kg (Oral-rat)
Methanol	Not available
Ammonium hydrogen fluoride	31 mg/kg (Intraperitoneal rat), IDHL (NIOSH) = 250mg/m <sup>3</sup>
(Nonylphenoxy) Polyethylene oxide	3310 mg/kg (Oral-rat), > 2,000 mg/kg (Dermal-rabbit)
<b>Eye</b>	Causes severe eye damage. Corrosive to eyes leading to blindness.
<b>Skin</b>	May cause severe skin burns.
<b>Ingestion</b>	Fatal if swallowed. May cause corrosive damage to mouth, throat and stomach.
<b>Inhalation</b>	Fatal if inhaled. Can cause pulmonary edema and chemical pneumonitis.
<b>Sensitization</b>	No data available.
<b>Chronic effects of short and long Term exposure</b>	Prolonged exposure to skin may cause drying, defatting and irritation and aggravate existing skin problems.
<b>Carcinogenicity</b>	IARC has classified mists containing sulfuric acid as a known human carcinogen.
<b>Mutagenicity</b>	No data available
<b>Reproductive effects</b>	May damage fertility of the unborn child (fetotoxic and teratogenic effects).
<b>Teratogenicity</b>	Methanol has produced fetotoxicity in rats and mice exposed to high concentrations of methanol vapors.

## 12. Ecological Information

<b>Eco-toxicity</b>	Ecological effects for this product have not been analyzed. However, if spilled this product's ingredients are toxic to aquatic life and may have long lasting effects. EPA Ecological Toxicity rating: High.
Phosphoric acid	LC 50 Flounder: 100-330 mg /l – 48 hour, LC50 Shrimp: 80-90 mg/l- 48 hour.
Sulfuric acid	LC50 Pimephales promelas ( fathead minnow): 29.4 mg/l -96hour.
Methanol	LC50 Daphnia obtuse (Water flea): 22,200 mg/l- 24 hour.
Ammonium hydrogen fluoride	LC50 Fish: > 100 mg/l-96 hour.
(Nonylphenoxy) polyethene oxide	LC50 Fish: 10 mg/l-96 hour.
<b>Environmental effects</b>	
Sulfuric acid	When released into soil, this material may leach into ground water
<b>Aquatic toxicity</b>	
Phosphoric acid	Dangerous to aquatic plants at high concentrations.
<b>Persistence and Degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	
Phosphoric acid	Inorganic phosphates have the potential to increase the growth of algae, whose eventual death will reduce the available oxygen for aquatic life.
<b>Partition coefficient</b>	Not Available
<b>Mobility in environmental media</b>	Not Available
<b>Chemical fate information</b>	Not Available
<b>Other adverse effects</b>	Not Available

## 13. Disposal Considerations

<b>Waste codes</b>	Not Available
<b>Disposal instructions</b>	Dispose in accordance with local, state, and federal regulations
<b>Wastes from residues/unused product</b>	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
<b>Contaminated packaging</b>	Dispose of container in accordance with federal, state, and local requirements.

## 14. Transport Information

**Basic shipping requirements:**

<b>Proper shipping name:</b>	UN2920 Corrosive liquids, flammable, n.o.s.(contains Sulfuric acid, Phosphoric acid, Methanol, Ammonium hydrogen fluoride), 8, (3), PG II
<b>Hazard class</b>	8, 3
<b>UN number</b>	2920
<b>Packing group</b>	II
<b>Special provisions</b>	
<b>Packaging exceptions</b>	None

## 15. Regulatory Information

<b>U.S federal regulations</b>	This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA. HCS 2012	
<b>TSCA</b>	All ingredients are listed on the Toxic Substances Control Act	
<b>CERCLA Super Fund 40CFR117.302</b>	Product contains a material with a Reportable Quantity (RQ)	
Phosphoric acid	RQ = 5000 Lbs.	
Sulfuric acid	RQ = 1000 Lbs.	
Ammonium hydrogen fluoride	RQ = 100 Lbs.	
<b>SARA Title III Section 311&amp;312</b>	Immediate (Acute) Health Hazard	
	Phosphoric acid	
	Sulfuric acid	
	Ammonium hydrogen fluoride	subject to reporting as Ammonia.
<b>SARA Title III Section 313</b>	Subject to the reporting requirements of section 313 of Title III SARA.	
	Sulfuric acid	
<b>States Right to Know</b>	Reportable chemicals:	
	Sulfuric acid	
	Ammonium hydrogen fluoride	
<b>Warning</b>	This product contains a chemical known to the state of California to cause cancer, birth defects or reproductive effects:	
	Sulfuric acid	
<b>Inventory Status</b>		
<b>Countries</b>	<b>Inventory Name</b>	<b>On Inventory (Yes/No)*</b>
U.S.	CIL	Yes
Canada	DSL	Yes

- A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

## 16. Other Information

### HMIS RATING

HMIS Legend

Severe	4	Health	3
Serious	3	Flammability	2
Moderate	2	Reactivity	2
Slight	1	Personal Protection	B
Minimal	0		

**Disclaimer**

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**Supersedes date**

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