

**Material Safety Data Sheet**

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

**Concentrated Aluminum Brightener**

Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the space must be marked to indicate that

**Section I**

Manufacturer's Name	Century Chemicals	Emergency Telephone Number	801-280-0870
Address (Number, Street, City, State, and ZIP Code)	4343 W. 8480 S.	Telephone Number for Information	801-280-0870
	West Jordan, Utah 84088	Date Prepared	3/9/2010
		Signature of Preparer (optional)	

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	CAS Number
Phosphoric Acid				7664-38-2
Ammonium Hydrogen Di-Fluoride				1341-49-7
Ethylene Glycol Monobutyl Ether				111-76-2
Sulfuric Acid				7664-93-9

**Section III - Physical/Chemical Characteristics**

Boiling Point	212 OF	Specific Gravity (H <sub>2</sub> O = 1)	1.2087
Vapor Pressure (mm Hg.)	19	Melting Point	N/A
Vapor Density (AIR = 1)	0.6	Evaporation Rate (Butyl Acetate = 1)	1
Solubility in Water	100%		

**Appearance and Odor**

Green liquid, characteristic odor

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used)	Non-Combustible	N/A	LEL	UEL
			N/A	N/A

**Extinguishing Media**

None

**Special Fire Fighting Procedures**

None

**Unusual Fire and Explosion Hazards**

None

**Section V - Reactivity Data**

Stability	Unstable	Conditions to Avoid
	Stable	

		X	N/A
<b>Incompatibility (Materials to Avoid)</b>			
Oxidizers and strong bases (caustics)			
<b>Hazardous Decomposition or Byproducts</b>			
Carbon dioxide and monoxide, sulfur oxides and oxides of phosphorus			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

**Section VI - Health Hazard Data**

Primary Route(s) of Entry:	Inhalation?	Skin?	Eyes?	Ingestion?
	X		X	

**Health Hazards (Acute and Chronic)**

May cause irritation to upper respiratory tract. Not likely to be a problem under normal conditions of handling and use. May cause burns or irritation to eyes or skin.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	None known		

**Signs and Symptoms of Exposure****Medical Conditions****Generally Aggravated by Exposure**

Pre-existing conditions affecting respiratory tract, eyes, or skin.

**Emergency and First Aid Procedures**

Eye contact: Flush (including under lids) with water for at least 15 minutes. Get medical attention.  
 Skin contact: Flush with cold water for at least 15 minutes. Use alkaline soap. If irritation occurs, get medical aid.  
 Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water if conscious. Call a physician immediately.  
 Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.

**Section VII - Precautions for Safe Handling and Use****Steps to Be Taken in Case Material is Released or Spilled**

Contain spill. Do not contaminate sewers, ground, or surface waters. Neutralize with soda ash or lime.  
 Soak up in inert absorbent. Place in leak proof containers. Seal and label properly for proper legal disposal.

**Waste Disposal Method**

Consult with appropriate regulatory agencies to determine method of disposal in compliance with federal, state, and local regulations.

**Precaution to Be Taken in Handling and Storing**

Store between 35 - 120°F.

**Other Precautions**

Keep container closed when not in use and keep out of reach of children.

**Section VIII - Control Measures****Respiratory Protection (Specify Type)**

None under normal use.

Ventilation	Local Exhaust	Satisfactory	Special	N/A
	Mechanical (General)	N/A	Other	N/A

Protective Gloves	Rubber	Eye Protection	Chemical safety goggles
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**Other Protective Clothing or Equipment**

None

**Work/Hygienic Practices**

Avoid contact with skin and avoid breathing vapors. Wash hands before eating, drinking, and using restrooms.