

	1. IDENTIFICATION		
<u>Product Identifier</u> Product Name	A-Plus Aluminum Brightener		
Other Means of Identification Product Code	084800		
Recommended use of the Chemica	I and Restrictions on Use		
Recommended Use	Aluminum brightener concentrate. For industrial use.		
Details of the Supplier of the Safety Midlab, Inc. 140 Private Brand Way Athens, TN 37303			

Revision Date: 03-Feb-2014

## Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)

Phone: 1-423-337-3180 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Colorless

Issue Date 08-Aug-2011

Physical State Liquid

Odor None

Version 1.0

## **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Corrosive to Metals	Category 1

#### <u>Signal Word</u> Danger

## Hazard Statements Toxic if swallowed.

Toxic if swallowed. Fatal in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. May cause cancer. May be corrosive to metals.



## **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection.

Keep only in original container.

## **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting. IN CASE OF SPILL: Absorb spillage to prevent material damage.

### Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

#### **Other Hazards**

Harmful to aquatic life with long lasting effects.

## Unknown Acute Toxicity

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Sulfuric Acid	7664-93-9	10-30
Nonylphenoxypolyethoxyethanol	68412-54-4	1-5
Hydrofluoric Acid	7664-39-3	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*\*

## 4. FIRST-AID MEASURES

#### **First Aid Measures**

General Advice	If exposed or concerned: Get medical advice/attention. When seeking medical attention, emphasize exposure to hydrofluoric acid.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove and discard contact lenses. Get immediate medical advice/attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention immediately.

Inhalation	Remove to fresh air. Get medical attention immediately.	
Ingestion	Rinse mouth. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.	
Most Important Symptoms and Eff	ects	
Symptoms	Irritation and corrosive burns to mouth, throat, and stomach. Corrosive to eyes. Prolonged contact may even cause severe skin irritation or mild burn. May cause hypocalcemia. Can also cause bone and joint changes in humans (Fluorosis).	
Indication of any Immediate Medic	al Attention and Special Treatment Needed	
Notes to Physician	This product contains hydrofluoric acid.	

## **5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

## Unsuitable Extinguishing Media

Not determined.

## Specific Hazards Arising from the Chemical

Contents are corrosive and all personal contact must be avoided.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Personal Precautions, Protective Equipment and Emergency Procedures				
Personal Precautions	Use personal protective equipment as required.			
Environmental Precautions	Avoid release to the environment.			
Methods and Material for Containment and Cleaning Up				
Methods for Containment	Prevent further leakage or spillage if safe to do so.			
Methods for Clean-Up	Collect spillage. Collect in a clean, dry waste container for disposal. Dilute with water and clean up.			
7. HANDLING AND STORAGE				
Precautions for Safe Handling				

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas.

Conditions for Safe Storage, including any Incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up ar out of reach of children. Keep only in original container. Keep from freezing.	
Incompatible Materials	Acids. Bases. Oxidizing agents. Uncontrolled contact with water.	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric Acid	TWA: 0.2 mg/m <sup>3</sup> thoracic fraction	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup>
7664-93-9	5	(vacated) IVVA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
	TWA: 0.5 ppm F_TWA: 2.5 mg/m <sup>3</sup>	TWA: 3 ppm F TWA: 2.5 mg/m <sup>3</sup> F	IDLH: 30 ppm
Hydrofluoric Acid 7664-39-3	TWA. 0.5 ppm F TWA. 2.5 mg/m*	TWA: 2.5 mg/m <sup>3</sup> dust	Ceiling: 6 ppm 15 min
	С*	(vacated) TWA: 3 ppm F	Ceiling: 5 mg/m <sup>3</sup> 15 min
	Coiling: 2 ppm E	(vacated) TWA: 2.5 mg/m <sup>3</sup>	TWA: 3 ppm
	Ceiling: 2 ppm F	(vacated) STEL: 6 ppm F	TWA: 2.5 mg/m <sup>3</sup>

## **Appropriate Engineering Controls**

Engineering Controls	Ventilation systems. Eyewash stations. Showers.	
Individual Protection Measures, suc	ch as Personal Protective Equipment	
Eye/Face Protection	Splash goggles or safety glasses.	
Skin and Body Protection	Rubber, Nitrile, PVC, or other chemically resistant skin protection to prevent contact.	
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.	
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on Basic Physical and Chemical Properties

Physical State Appearance Color	Liquid Clear Colorless	Odor Odor Threshold	None Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity	Values <1 Not known 100.5 °C / 213 °F Not applicable Not determined n/a-liquid Not determined Not determined Not determined Not determined 1.16	<u>Remarks • Method</u>	
Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Completely soluble Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined	@ 25 °C (77 °F)	

## **10. STABILITY AND REACTIVITY**

## Reactivity

Not reactive under normal conditions.

## **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to Avoid

Keep out of reach of children. Keep from freezing.

#### **Incompatible Materials**

Acids. Bases. Oxidizing agents. Uncontrolled contact with water.

#### **Hazardous Decomposition Products**

When exposed to fire, produces normal products of combustion.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on Likely Routes of Exposure

**Product Information** 

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns. Fatal in contact with skin.
Inhalation	Fatal if inhaled.
Ingestion	Toxic if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid 7664-93-9	= 2140 mg/kg(Rat)	-	= 510 mg/m³ (Rat)2 h
Nonylphenoxypolyethoxyethanol 68412-54-4	= 3310 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Hydrofluoric Acid 7664-39-3	-	-	= 850 mg/m³(Rat)1 h = 1276 ppm (Rat)1 h

## Information on Physical, Chemical and Toxicological Effects

Symptoms

Please see section 4 of this SDS for symptoms.

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

## Carcinogenicity

Note: The agencies below have listed Strong Inorganic Acid Mists, Containing Sulfuric Acid as a known carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfuric Acid 7664-93-9	A2	Group 1	Known	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

### **Numerical Measures of Toxicity**

Not determined

#### **Unknown Acute Toxicity**

None known.

## **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sulfuric Acid 7664-93-9	-	500: 96 h Brachydanio rerio mg/L LC50 static	-	29: 24 h Daphnia magna mg/L EC50
Nonylphenoxypolyethoxyeth anol 68412-54-4	-	404-706 mg/L	-	-
Hydrofluoric Acid 7664-39-3	-	660: 48 h Leuciscus idus mg/L LC50	-	270: 48 h Daphnia species mg/L EC50

## Persistence/Degradability

Not determined

### **Bioaccumulation**

Not determined

## Mobility

Chemical Name	Partition Coefficient
Hydrofluoric Acid 7664-39-3	-1.4

## **Other Adverse Effects**

Not determined

## **13. DISPOSAL CONSIDERATIONS**

## Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrofluoric Acid 7664-39-3	U134			U134

## California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sulfuric Acid	Toxic
7664-93-9	Corrosive

# **14. TRANSPORT INFORMATION**

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	UN3264, Corrosive Liquid, Acidic, Inorganic, NOS (Containing Hydrofluoric Acid and Sulfuric Acid), 8, PG II
IATA_	
IMDG Marine Pollutant	This material may meet the definition of a marine pollutant

# 15. REGULATORY INFORMATION

## International Inventories

Not determined

## US Federal Regulations

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sulfuric Acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7664-93-9	di 0001	di 0001	RQ 454 kg final RQ
Hydrofluoric Acid	100 lb	100 lb	RQ 100 lb final RQ
7664-39-3	al 001	al 001	RQ 45.4 kg final RQ

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Reactive Hazard	Yes

## SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Sulfuric Acid	7664-93-9	10-30	1.0
Hydrofluoric Acid	7664-39-3	1-5	1.0

### CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric Acid 7664-93-9	1000 lb			Х
Hydrofluoric Acid 7664-39-3	100 lb			Х

#### US State Regulations

## U.S. State Right-to-Know Regulations

Chemical Name	State List
Sulfuric Acid 7664-93-9	CAP65, MA, NJ, PA
Hydrofluoric Acid 7664-39-3	MA, NJ, PA

AZ – Arizona Ambient Air Quality Guidelines

CT – Connecticut Hazardous Air Pollutants

CA - California Director's List of Hazardous Substances

CAP65 – California Prop 65

FL – Florida Substances List

ID – Idaho Non-Carcinogen Toxic Air Pollutants

IL - Illinois Toxic Air Contaminate- Carcinogenic

MA – Massachusetts Right to Know List

MN – Minnesota Hazardous Substances List

NJ – New Jersey Right to Know List

PA – Pennsylvania Right to Know List

RI – Rhode Island Hazardous Substances List

## **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability
HMIS_	Not determined Health Hazards	Not determined Flammability	Not determined Physical Hazards
	4	0	1

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Special Hazards Not determined Personal Protection Not determined

**Disclaimer** 

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Keep Out of Reach of Children. For Industrial and Institutional Use Only.

\*Denotes changes from last version.

**End of Safety Data Sheet**