SAFETY DATA SHEET

NAPA Mac's Aluminum Brightener

Section 1: Product and Company Identification:

Product Name: NAPA Mac's Aluminum Brightener
Product Use: Aluminum Cleaner
Part's: 1458, 1478
Manufacture/Supplier: Aiken Chemical Company, Inc.
P.O. Box 27147, Greenville, SC 29616
12 Shelter Drive, Greer, SC 29650
Phone Number: (864) 968-1250
1-800-828-1860
Emergency Phone: 1-800-424-9300
Date of Preparation: March 30, 2015

Section 2: Hazards Identification:

Emergency Overview:

Danger: May be fatal if swallowed or inhaled. Affects respiratory system, heart, skeleton, circulatory system, central nervous system and kidneys. Causes irritation and burns to skin, eyes and respiratory tract, irritation and burn effects may be delayed. Harmful if absorbed through skin.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Eye contact, skin contact, ingestion, and inhalation.

Eye: Direct contact can cause corrosive ocular burns.

Skin: Contact is irritating and may cause unusual, large, pustular skin rash that appears similar to ballooning of the skin. Can cause serious burns; these burns do not appear serious at first, but may generate all the way to the bone.

Ingestion: Symptoms include digestive tract irritation or corrosion, nausea and vomiting, abdominal pain, muscle weakness and spasms, dehydration, convulsion, progressive CNS depression (fatigue, coma and respiratory arrest, even in absence of circulatory failure), cardiac arrhythmias and excessive potassium and calcium in the blood

Inhalation: May cause severe irritation of the respiratory tract. Respiratory stimulation occurs first, followed by depressed respirations. Death may occur from respiratory paralysis.

Chronic Effects: Repeated or prolonged exposure to and absorption of the fluoride ion can cause kidney damage as well as fluorosis (brittle bones, calcified ligaments and anemia).

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system

Potential Environmental Effects: See Section 12 from more information.

GHS Classifications:

Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Serious Eye Damage/Eye Irritation, 1

GHS Phrases:

Warning, H302 - Harmful if swallowed
Warning, H312 - Harmful in contact with skin
Danger, H318 - Causes serious eye damage

GHS Precautionary Statements:

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/physician immediately.
IF ON SKIN: Wash with soap and water. Seek immediate medical assistance. Wash contaminated clothing before reuse.

IF IN EYES: Rinse continuously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical assistance.

Section 3: Composition / Information on Ingredients:

Ingredient	CAS#	Percent
Phosphoric Acid	7664-38-2	1-10
Sulfuric Acid	7664-93-9	1-10
Ammonium Bifluoride	1341-49-7	1 - 5
Ethylene Glycol Monobutyl Ether	111-76-2	1 - 5

OSHA Regulatory Status: This SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Section 4: First Aid Measures:

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids. Get immediate medical attention.

Skin Contact: Remove contaminated clothing, jewelry and shoes immediately. Flush affected area with large amounts of water, then use soap or mild detergent and large amounts of water for 15-20 minutes to cleanse area. Get medical attention immediately.

Inhalation: Remove from exposure and get fresh air. Keep warm and at rest. Get medical attention immediately if artificial respiration is required.

Ingestion: Rinse mouth with water. DO NOT INDUCE VOMITING unless instructed to by medical personnel. If vomiting occurs keep head lower than hips to help prevent aspiration. If person is unconscious, do not induce vomiting; turn their head to the side. Never make an unconscious person vomit or drink fluids. Get medical attention immediately.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately. Show the label or SDS where possible.

Note to Physicians: Symptoms may not appear immediately.

Section 5: Fire Fighting Measures:

Flammability: Not Flammable by WHMIS/OSHA Criteria.

Means of Extinguishing:

- **Suitable extinguishing media:** Use water fog, alcohol foam, carbon dioxide or dry chemical.
- **Unsuitable Extinguishing Media:** Not Available.

Products of Combustion: Not Available.

Explosion Data:

- **Sensitivity to Mechanical Impact:** Not Available.
- **Sensitivity to Static Discharge:** Not Available.
- **Protection of Firefighters:** Keep Upwind of fire. Wear full fire-fighting turn-out gear, (full Bunker gear), and respiratory protection (SCBA)
- **Unusual fire and Explosion hazards:** If containers rupture, use fire hose to direct ruptured stream away from metal objects since the product can react with many metals to produce explosive hydrogen gas.

Section 6: Accidental Release Measures:

Personal Precautions: Use personal protection recommended in section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Not Available.

Methods for Containment: Contain and/or absorb spill with inert material, (e.g. sand, vermiculite), then place in a suitable container. Use appropriate Personal Protective Equipment, (PPE).

Methods for Clean-up: Scoop up material and place in a disposal container. Provide ventilation.

Other Information: Not Available.
Disposal: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 7: Handling and Storage:

Handling: Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage: Do not store in aluminum, copper, or galvanized containers. Separate from acids, reactive metals, and ammonium salts. Store out of reach of children; keep container closed; store in a cool, well-ventilated place.

Section 8: Exposure Controls/Personal Protections:

Exposure Guidelines:

Ingredient	Exposure Limits	
	OSHA-PEL	**ACGIH-TLV**
Phosphoric Acid	3 mg/m^3	1 mg/m^3
Sulfuric Acid	3 mg/m^3	1 mg/m^3
Ammonium Bifluoride	NA	205 mg (Fluorine)
Ethylene Glycol Monobutyl Ether	NA	50 ppm - 240 mg/m3

Engineering Controls: Use Ventilation adequate to keep exposures, (airborne levels of dust, fume, vapor, etc.), below recommended exposure limits.
Personal Protective Equipment: HMIS PP, B | Safety glasses, Gloves
Eye/Face Protection: Wear eye/face protection.
Hand Protection: Wear suitable gloves, (Neoprene, Nitrile Rubber, and Polyethylene).
Skin and Body Protection: Wear body-covering, impervious clothing, chemical resistant gloves and boots.
General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: Physical and Chemical Properties:

Appearance and Odor: Clear/Colorless with Acrid Odor
Physical State: Liquid
pH: 3.0 – 3.5
Freezing Point: ~2°C (~28.4°F)
Boiling Point: ~100°C (~212°F)
Flash Point (Method Used): >200°F (PMCC)
Evaporation Rate (Butyl Acetate= 1) : NA
LEL: Not Determined
UEL: Not Determined
Vapor Pressure (mm Hg.): NA
Vapor Density (AIR=1): > 1
Specific Gravity: 1.123
Solubility in Water: Complete
Melting Point: NA
Auto-Ignition Temperature: Not Determined

Section 10: Stability and Reactivity:

Stability: Stable under normal storage conditions.
Conditions to Avoid: Mixing or blending with High pH solutions.
Hazardous Decomposition or Byproducts: On contact with metals, can liberate hydrogen gas. On heating to decomposition, could yield toxic fumes of fluorides and hydrogen fluoride gas. Attacks glass and other silicon containing compounds; Reacts with silica to produce silicon tetrafluoride, a hazardous colorless gas.
Hazardous Polymenzation: Will Not Occur.

Section 11: Toxicology Information:

Effects of Acute Exposure

Component Analysis: Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact.

Phosphoric Acid:	7664-38-2	**Oral** (LD50): 1530 mg/kg LC50-rat
		Dermal (LD50): 1.689 mg/L (1 hour)-rabbit 2740 mg/kg -Rabbit
Sulfuric Acid:	7664-93-9	**Oral** (LD 50): 350 mg/kg – Rat
		Inhalation (LC 50): 510 mg/m3/2H – Rat
		Skin irritation: Severe – Rabbit
		Eye irritation: Severe – Rabbit
		Sensitization: Not considered an occupational sensitizer
Ammonium Bifluoride:	134-14-97	**Oral** (LD 50): Not Listed on RTECS
		Inhalation (LC 50): Not Listed on RTECS
		Skin irritation: Mild
		Eye irritation: Severe
		Sensitization: Not considered an occupational sensitizer
Ethylene Glycol Monobutyl Ether:	111-76-2	**Oral** (LD 50): 917 mg/kg – Rat
		Inhalation (LC 50): 2900 mg/m3/7H – Rat
		Skin irritation: Mild
		Eye irritation: Mild
		Sensitization: Not considered an occupational sensitizer

Section 12: Ecological Information:

Ecotoxicity: Not Available
Persistence/Degradability: Not Available
Bioaccumulation/Accumulation: Not Available
Mobility in Environment: Not Available

Section 13: Disposal Considerations:

Disposal Instructions: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: Transportation Information:

UN Number: UN1760
Proper Shipping Name: Corrosive liquid N.O.S. (Ammonium bifluoride, Phosphoric Acid)
Hazard Class: 8
Packing Group II

Section 15: Regulatory Information:

Chemical Inventories:

TSCA: All components are listed on the Toxic Substance Control Act Chemical Substances Inventory.

SARA Section 311: Acute

SARA Section 313: Toxic Release Inventory Chemical: Glycol Ethers,

California Safe Drinking Water Enforcement Act (Prop 65):

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the stature.

Pennsylvania (Worker and Community Right-to-Know act):

Pennsylvania Special Hazardous Substance List and/or Pennsylvania Environmental Hazardous Substance list:

To the best of our knowledge, this product does not contain chemicals that require reporting under this stature.

New Jersey Right-to-Know Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals that require reporting under this stature.

Massachusetts Substance List:

To the best of our knowledge, this product does not contain chemicals that require reporting under this stature.

Section 16: Other Information:

NFPA	**Health Hazard**	**Flammability**	**Instability**	**Physical &Chemical Hazards**
	3	0	0	COR
HMIS	**Health Hazard**	**Flammability**	**Physical Hazard**	**Personal Protection**
	3	0	0	C

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Revision Date:
Revision Note

General Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.