SAFETY DATA SHEET

Date issued : 07/18/2015
SDS number : 5402
Date revised : 07/17/2024
Revision number : 5

ALUMINUM BRIGHTENER

1. Identification

Product code: 5402
Product identifier: ALUMINUM BRIGHTENER
Relevant identified uses: Aluminum Brightener and Restorer

Manufacturer / Supplier
John-Henry Enterprises, Inc.
800 Central Ave.
Jefferson, LA 70121
Emergency contact: H. Zeller
Emergency Phone: 504-888-8989
Web: www.john-henry.com

Emergency telephone number (24 hour)
US/Canada: 800-535-5053

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Eye Corrosion, Category 1
Skin Corrosion, Category 1

Environmental hazards:

Acute Hazards to the Aquatic Environment

Label elements

CORROSIVE: Causes severe irritation and can cause burns and permanent damage to eyes. Causes moderate to severe irritation and possibly burns to skin. Burns may develop after exposure. Mists and spray can irritate eyes, nose, throat, and respiratory system. Ingestion can cause severe irritation, burns and tissue damage to mouth, throat, esophagus, and stomach. May be harmful or fatal if swallowed.


Severe Irritant/Corrosive


Health hazard

Signal word: DANGER

Hazard statement(s)

H314: Causes severe skin burns and eye damage.
H290: May be corrosive to metals.
H301: Toxic if swallowed.

Precautionary statement(s)

Supplemental label elements:

P102: Keep out of reach of children.
P103: Read carefully and follow all instructions.
P273: Avoid release to the environment.
P202: Do not handle until all safety precautions have been read and understood.

Prevention:

P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P285: In case of inadequate ventilation wear respiratory protection.
P270: Do not eat, drink or smoke when using this product.

Response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

0505GPKQ: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (See First Aid Section for more detailed information).

6156HX6P: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (See First Aid Section for more details)

Storage:

75990X3S: Keep only in original container. Store in a cool, well-ventilated space. Keep container tightly closed.

Emergency overview

Immediate concerns: Causes severe irritation and immediate and delayed burns to skin. Causes severe irritation and damage to eyes. Mists and vapors can cause irritation to eyes, nose, and throat. Ingestion can damage mouth, throat, and other tissues and may be fatal.

Potential health effects

Eye: Corrosive to the eyes and may cause severe damage including tissue destruction and/or blindness.

Skin: Contact causes severe skin irritation and possible burns. Development of burns and ulcers may be delayed.

Ingestion: Causes irritation and burns to mouth, throat, esophagus, and gastrointestinal system .May cause gastrointestinal disconfort, including nausea, vomiting, diarrhea, etc, and may be fatal.

Inhalation: Mists or sprays can be moderately to severely irritating to eyes and respiratory tract.

Comments: Contains HYDROFLUORIC ACID. Toxic by inhalation, skin contact, and if swallowed. Causes severe burns and permanent injury to eyes. Causes burns to skin. Burns may be delayed and exposure may cause damage to tissue and bone in the contact area. Inhalation of vapors is irritating to the respiratory system and can cause pulmonary edema and pneumonitis.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Hydrofluoric Acid	7 - 8	7664-39-3
Phosphoric Acid	5 - 6	7664-38-2
Glycol ether	1 - 3	Proprietary
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 83	Mixture

4. First-aid measures

Eye: Treat eye contact and a medical emergency (call 911). Gently hold eyelids open and immediately flush eyes with water for at least 15 minutes or until pain eases. Remove contact lenses if possible. Cover eyes loosely with sterile dressing and SEEK IMMEDIATE MEDICAL ATTENTION.

Skin: Remove contaminated clothing and footwear. Flush off with copious amounts of running water. Treat exposed areas with a cold solution containing 1% benzethonium chloride for at least thirty minutes. Seek medical attention is irritation persists, worsen, or if burns and ulcers develop.

Ingestion: Get immediate medical attention (call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give patient water or milk unless unconscious or convulsing. Keep patient warm and comfortable. Treat for shock.

Inhalation: If affected by spray or mist, move to fresh air. Seek medical attention if symptoms persist or worsen.

Most important symptoms and effects, both acute and delayed

Eye: Severe irritation or pain, blurring and loss of vision, burns and/or permanent damage.

Skin: Causes moderate to severe irritation and burns. Development of burns and ulcers may be delayed.

Ingestion: Harmful or fatal if swallowed. Can cause irritation, gastric upset, burns and damage (corrosion) to mouth, throat, esophagus and gastrointestinal tract.

Inhalation: Spray or mists can irritate eyes, nose, throat, and respiratory tract.

Indication of immediate medical attention and special treatment needed, if necessary: This product contains hydrofluoric acid. Take appropriate protective and preventive measures.

5. Fire-fighting measures

Flammable class: Not Applicable - Water based product with no flashpoint.

General hazard: Boiling product can release irritating, acidic fumes.

Suitable extinguishing media: Not applicable - water based product. After water has evaporated, use water (fog or spray) or chemical foam on burning solids.

Hazardous combustion products: Oxides of carbon and hydrocarbon residues, and acidic fumes.

Explosion hazards: Containers can burst if exposed to flames or high temperatures. Cool with water spray.

Fire fighting procedures: Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool containers and knock down acidic vapors.

6. Accidental release measures

Small spill: Wear recommended PPE. Ventilate the area and remove uninvolved personnel. Contain and absorb spill. Avoid runoff into storm sewers and ditches which lead to waterways. Rinse spill are with water or dilute alkaine solution. Dispose of contaminated absorbant material properly.

Large spill: Wear appropriate PPE. Remove uninvolved personnel from and ventilate the area. Stop and contain flow and keep spilled material from entering sewer or surface waterways. Collect spilled material and store in suitable, properly labeled containers for use or disposal. Rinse spill area thoroughly with water or a dilute alkaline solution.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes and prolonged contact with skin. Read and understand product label and SDS before handling any chemical. Always wear recommended personal protective equipment. Follow label cautions and instructions.

Conditions for safe storage: Store in original containers in well ventilated area. Keep containers closed when not in use.

Storage temperature: Store at temperatures below 100 deg F.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
	Occupational exposure limit values			
Chemical name	**Type**		**ppm**	**mg/m³**
Hydrofluoric Acid	**OSHA PEL**	**TWA**	3	
	ACGIH TLV	**TWA**	0.5	
Phosphoric Acid	**OSHA PEL**	**TWA**		1
	ACGIH TLV	**TWA**		1
		STEL		3
Glycol ether	**OSHA PEL**	**TWA**	50	240
	ACGIH TLV	**TWA**	20	97

Appropriate engineering controls: Maintain sufficient ventilation in storage and use areas to prevent the accumulation of product vapors, fumes, spray, or mists. Provide local exhaust for enclosed areas.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear safety glasses or goggles and face shield (recommended) when handling.

Skin protection - hand protection: Wear acid resistant outer garments, impermeable boots and gloves when handling.

Respiratory protection: Use with adequate ventilation. Wear a NIOSH approved acid absorbing, air purifying respirator where fumes, mists or spray are excessive or exceed exposure limits.

Occupational hygiene practices: Wash thoroughly before eating, drinking, smoking, or using the facilities after handling any chemical product.

Other use precautions: Working eyewash stations and safety showers should be located in or near all areas where chemicals are stored or used.

9. Physical and chemical properties

Appearance: clear, colorless liquid

Odor: Sharp, acidic

pH: less than 2 (5% solution)

Freezing point: less than 32 deg F (0 deg C)

Initial boiling point and boiling range: greater than 212 deg F

Flash point: Not applicable - water based product

Evaporation rate (n-butyl acetate = 1): Same as water (approximately)

Explosion limit / flammability limit notes: Not Applicable

Vapor pressure: Same as water (approximately)

Relative vapor density: Same as water (approximately)

Relative density: 1.007 to 1.012

Solubility: Complete in all proportions.

Viscosity: Same as water (approximately)

Percent volatiles: greater than 90% (w/w)

VOC content: < 2

10. Stability and reactivity

Reactivity: Reactive with alkaline materials. Reacts with metals.

Dangerous polymerization: No

Possibility of hazardous reactions: Reacts with metals (releases hydrogen, a flammable gas). Reacts vigorously with concentrated alkalies to generate acidic steam.

Hazardous decomposition products: Oxides of carbon and hydrocarbon residues, acidic fumes

Incompatible materials: Concentrated alkalies and oxidizing agents.

11. Toxicological information

Acute toxicity

Notes: No toxicity data available for product

Skin corrosion / irritation: Concentrated product is corrosive to skin, eyes, and metals.

Carcinogenicity

Chemical name	General Toxicity
Glycol ether	Confirmed animal carcinogen with unknown relevance to humans - Group A3

Notes: Contains no known or suspected carcinogens.

12. Ecological information

Environmental data: No data

Comments: This product could be expected to produce significant ecotoxicity upon exposure to aquatic systems and organisms. Surfactants and other organics are readily biodegradable.

13. Disposal considerations

Disposal methods: Unused or undiluted product constitutes a hazardous waste. Follow all appropriate local, state, and Federal disposal regulations. Surfactants and other organic components are biodegradable. Collect and neutralize spent solutions and discharge to a waste water treatment facility.

For large spills: See Section 6

Empty container: Triple rinse container thoroughly with water and recycle.

RCRA hazard class: D002 - Corrosive (pH less than 2.5)

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: UN1760, CORROSIVE LIQUID, N.O.S. (contains hydrofluoric acid and phosphoric acid), 8 (6.1), II

Reportable quantity (rq) under CERCLA: 1315 lbs (as supplied)

Placards: Corrosive

Hazard label: Corrosive

IMO / IMDG - International

UN proper shipping name: UN1790, HYDROFLUORIC ACID SOLUTION, N.O.S. (contains phosphoric acid), 8 (6.1), II

Transport hazard class(es): 8

Secondary hazard class/division: 6.1

15. Regulatory information

UNITED STATES

Dot label symbol and hazard classification

Corrosive

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Corrosive

Section 312 threshold planning quantity (40 cfr370): 1315 lbs (as supplied)

313 reportable ingredients: Hydrogen Fluoride (present as hydrofluoric acid)

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Hydrofluoric Acid	7 - 8	7664-39-3

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Hydrofluoric Acid	7 - 8	100
Phosphoric Acid	5 - 6	5,000

CERCLA rq: 1315 lbs (as supplied)

EPA

EPA rq ingredient: Hydrogen fluoride (present as hydrofluoric acid)

EPA rq product: 1315 lbs

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Hydrofluoric Acid	7664-39-3
Phosphoric Acid	7664-38-2
Glycol ether	Proprietary

TSCA Status: All ingredients are included on the TSCA Inventory or are exempt

CAA 112(b) Hazardous Air Pollutants

Chemical name	% w/w	CAS No.
Hydrofluoric Acid	7 - 8	7664-39-3

California Proposition 65: Contains no substances known to the State of California to cause cancer.

16. Other information

Reason for issue: New Address

Approved by: H. Zeller

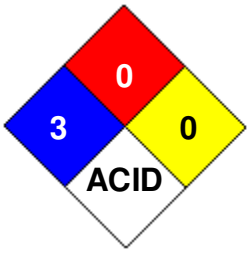
Prepared by: CSCC **Date revised:** 07/17/2024

Revision summary: This SDS replaces the 02/11/2022 SDS. Revised: **Section 1:** Reason for issue. **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

HMIS rating

Health	3
Flammability	0
Physical hazard	0
Personal protection	X

NFPA codes



General statements: Amounts given herein (other than for regulatory purposes) are typical and do not represent a

specification. Unspecified or unlisted components are proprietary, do not present a hazard at levels present, are not hazardous, and/or are present It levels below reportable limits. Exact percentage values for all components are proprietary in accordance with 29 CFR 1910.1200(i)

Manufacturer disclaimer: To the best of our knowledge, the information contained herein is accurate. However, no liability whatsoever is assumed for its accuracy and/or completeness. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown health or physical hazards and should be used with caution. Certain hazards are described herein, but no guarantee is made that these are the only hazards associated with the material that exist.