

# Safety Data Sheet

41875

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

*Manufactured for Industrial & Institutional Use Only by:*



**Chemical Industries, Inc.**

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Burton, OH 44021 USA

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Product Name:

**2106 HEAVY DUTY  
ALUMINUM BRIGHTENER**

**FOR TRANSPORTATION EMERGENCY: CHEMTREC 800-424-9300**

This number is to be used ONLY in the case of emergencies involving a spill, leak, fire exposure or accident involving chemicals.

Product Use:

For Industrial use only

**FOR MEDICAL EMERGENCY: CHEMTREC 800-424-9300**

**FOR SDS INFORMATION: 800-233-8769**

Prepared By: Russell Wightman

## Section 2: HAZARD IDENTIFICATION



Signal Word:

**DANGER**

Hazard Statement:

**CORROSIVE. CAUSES SEVERE BURNS TO SKIN AND EYES.**

Precautionary Statements (PREVENTION)

P262 + P264 + P281 + P273 Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use personal protective equipment as required. Avoid release to the environment

Precautionary Statements (RESPONSE)

P305 + P351 + P338 + P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Get immediate medical attention

P303 + P361 + P352 + P363 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Wash with soap and water. Wash contaminated clothing before reuse

P301 + P321 + P330 + P314 IF SWALLOWED: INDUCE VOMITING unless otherwise advised by a physician. Rinse mouth. Get Medical attention if you feel unwell

P304 + P340 + P342 + P315 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical attention

### Precautionary Statements (STORAGE)

P404 + P402 Store in a closed container. Store in a dry place

### Precautionary Statements (DISPOSAL)

P501 Dispose of contents and/or container in accordance with all Local, State and Federal regulations

### Emergency Overview

Avoid contact with skin, eyes and clothing.

Eyes: Causes severe burns and irritation

Skin Contact: Very brief contact may cause irritation with itching, local redness and possibly swelling. Prolonged contact causes chemical burns with local discomfort or pain, severe excess redness and swelling, tissue destruction, fissures and/or ulcer.

Ingestion: Causes severe irritation or chemical burns of the mouth, throat, chest and abdomen, with possible nausea, vomiting, diarrhea, weakness, thirst.

### **Section 3: COMPOSITION INFORMATION**

Chemical Name	Common Name/ Synonyms	CAS Number	Maximum %
HYDROFLUORIC ACID [49%]	Hydrogen Fluoride, Fluorohydric Acid, Fluoric Acid, HF in Aqueous Solution	007664-39-3	10

If this product contains chemicals subject to the reporting requirements of Section 313 of EPCRA of 1986, they will be listed in Section 15

N/E = None Established N/A = Not Applicable

### **Section 4: FIRST AID MEASURES**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. If a physician is not immediately available, apply one or two drops of 0.5% Pontocaine Hydrochloride solution followed by a second flushing for 15 minutes. Use one of the solutions described for skin treatment. Use no oils or greases unless instructed to do so by a physician.

#### **GET IMMEDIATE MEDICAL ATTENTION**

**Skin Contact:** Immediately wash thoroughly with soap and water, then flush with plenty of water. Remove contaminated clothing and do not reuse before washing. Continue washing with large amounts of water for a minimum of 15 minutes. After washing, the burned areas should be immersed in a solution of 0.2% aqueous Hyamine 1622 (LONZA Inc.) or 0.13% ices aqueous Zephiran Chloride. If immersion is not practical, a towel should be soaked with one of these solutions and used as a compress. Change compresses every two minutes.

#### **GET IMMEDIATE MEDICAL ATTENTION**

**Ingestion:** Unless directed to do so by a physician DO NOT INDUCE VOMITING. If conscious, give large amounts of water or milk, milk of magnesia or egg whites. Never give anything by mouth to an unconscious or convulsing person.

#### **GET IMMEDIATE MEDICAL ATTENTION**

**Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive.

## GET IMMEDIATE MEDICAL ATTENTION

**Note to Physician:** HYAMINE 1622 is a trade name for Benzethonium Chloride (Merck Index monograph 1078) a quaternary ammonium compound sold by LONZA Inc. Zephiran Chloride is a trade name for Benzalkonium Chloride (Merck Index monograph 1059) also a quaternary ammonium compound, sold by Winthrop Laboratories. Pontocaine Hydrochloride is a trade name for Tetracaine Hydrochloride (Merck Index monograph 8904). Alternative treatment is for a physician to inject sterile 10% aqueous calcium gluconate solution subcutaneously around burned area. Initial use no more than 0.5 cc/square cm of skin.

### Section 5: FIRE FIGHTING MEASURES

**Flash Point (TAG Closed Cup):** No Flash

**Upper Flammable Limit (% in Air):** Not Determined

**Lower Flammable Limit (% in Air):** Not Determined

**Extinguishing Media:** Water spray, dry chemical, carbon dioxide. Use water spray to cool nearby containers and structures exposed to fire.

**Special Fire-Fighting Procedures:** Evacuate non-emergency personnel to a safe area. Contact emergency personnel as necessary. Avoid breathing smoke, fumes and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

**Unusual Fire & Explosion Hazards:** None known

### Section 6: ACCIDENTAL RELEASE MEASURES

**Material Spill or Release:** STEPS TO BE TAKEN: Wear protective equipment including rubber boots, rubber gloves, rubber apron and a self contained breathing apparatus in the pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full face piece air-purifying cartridge respirator equipped for organic vapors may be satisfactory. In any event, always wear eye protection.

For large spills, Corrosive liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance.

### Section 7: HANDLING AND STORAGE

**Precautions to be Taken** Avoid skin and eye contact.

Avoid excessive inhalation of vapors and mists.

Wash thoroughly after handling. Clean contaminated clothing before reuse.

Store in cool, well ventilated place away from incompatible chemicals and materials.

An eye/face fountain and deluge shower should be available in the work area.

Empty containers may retain vapors or product residue.

Always obey hazard warnings and handle empty containers as if they were full.

Do not get in eyes, on skin or on clothing.

Do not swallow.

Do not breath vapors or mists.

Do not eat, drink or smoke in work area containing chemicals.

## Section 8: PERSONAL PROTECTION AND EXPOSURE CONTROLS

**Respiratory Protection:** Use NIOSH/NSHA approved dust/mist filter respirator for routine work purposes when exposure to dusts or mists exceed the permissible exposure level (PEL). The respirator use limitations made by NIOSH/NHSA 20 CFR 1910.134.

**Ventilation:** Use ventilation adequate to keep exposures to hazardous ingredients below their Threshold Limit Values (TLV) or Permissible Exposure Levels (PEL). Local exhaust should be sufficient to maintain dust and mist levels below the PEL.

**Eye Protection:** Chemical splash goggles and/or full face shield if eye contact is likely.

**Protective Gloves:** Impervious gloves (rubber, nitrile or neoprene).

**Other Protective Equipment:** Appropriate protective clothing if working with corrosive or concentrated products. Products at use dilution MAY present less risk but protective clothing should still be worn.

Chemical Name	NIOSH REL	OSHA (PEL) TWA	ACGIH (TLV) TWA	OSHA (STEL) TWA
HYDROFLUORIC ACID [49%]	3 ppm, TWA	3 ppm, 8 Hr TWA	NO.5 ppm, 8 Hr. TWA	N/E

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear colorless liquid

**Boiling Range (760 mm Hg):** > 212°F

**Melting Range (760 mm Hg):** Not Determined

**Vapor Pressure (mm Hg):** < 1

**Vapor Density (Air = 1):** > 1

**Specific Gravity (Water = 1):** 1.024 - 1.044

**% Volatile (By Weight,  
Excluding Water):** 0

**Evaporation Rate (BuAc = 1):** < 1

**Solubility (In Water):** Complete

**pH (Concentrate)** < 1

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**Section 10: STABILITY AND REACTIVITY****Stability:** Stable under normal use and storage conditions.**Conditions to Avoid:** Excessive heat, open flames, sparks or any other ignition source.**Materials to Avoid:** Contact with strong bases, peroxides, bleaches. Oxidizing agents may degrade polymer**Hazardous Decomposition Products:** Burning can produce the following decomposition products: Oxides of carbon, silicon, nitrogen and hydrocarbons. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.**Hazardous Polymerization:** Will Not Occur**Section 11: TOXICOLOGICAL INFORMATION**

Chemical Name	NTP	IARC	ACGIH	Subpart Z	OSHA
HYDROFLUORIC ACID [49%]	No	No	No	No	No

**Section 12: ECOLOGICAL INFORMATION**

No Data Available

**Section 13: DISPOSAL CONSIDERATIONS****Waste Disposal Method(s):** Dispose of contaminated material in accordance with all Federal, State, and Local regulations. Recycle if feasible or treat at an industrial or liquid waste facility.**Section 14: TRANSPORT INFORMATION**

<b>Packing Group:</b> II	<b>RCRA Identification Number:</b> None
<b>UN Proper Shipping Name:</b> Compound, cleaning, liquid n.o.s.	<b>UN Identification Number:</b> UN1760
<b>UN Hazard Classification:</b> Corrosive liquid (containing hydrofluoric acid)	<b>UN Hazard Label:</b> Corrosive

**Section 15: REGULATORY INFORMATION****FEDERAL INFORMATION**

Chemical Name	CAS #	Max %	Clean Air Act	313 Toxic Chemicals	Clean Water Act	CERCLA Reportable Quantity (Pounds)	Reportable Product quantity (Pounds)
HYDROFLUORIC ACID [49%]	007664-39-3	10	No	No	Yes	100	1,000

**STATE INFORMATION**

Chemical Name	CAS #	Max %	State Lists	Proposition 65
HYDROFLUORIC ACID [49%]	007664-39-3	10	CA2, CA3, DE, IL, ME, MA, MN, NJ, NY, PA-E, WA, WI	No

## INTERNATIONAL INFORMATION

Chemical Name	CAS #	Max %	Canadian DSL (Y/N)	EINECS Number	WHMIS
HYDROFLUORIC ACID [49%]	007664-39-3	10	Yes	231-634-8	None

5. All ingredients in this product are listed on the USTSCA Inventory

### Section 16: OTHER INFORMATION

The Supplier urges each customer or recipient of this Safety Data Sheet to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention, as necessary or appropriate to use and understand the data contained in this Safety Data Sheet.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and other whom it knows or believes will use this material of the information in this Safety Data Sheet and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers and other users of the product, of this information.

**Version Date: 09/09/14**