Safety Data Sheet:
HANSON ALUMINUM BRIGHTENER

Version **1.0030**
Revision Date **04/29/2015**
Print Date **01/12/2017**

Section 1. Chemical product and company identification

Product Name: HANSON ALUMINUM BRIGHTENER

Product use: Aluminium cleaner

Contact Information: HANSON CHEMICAL INC
1212 BROADWATER AVE
BILLINGS MT 59102
406.248.1840

Emergency Phone: **INFOTRAC**
800.535.5053 **USA & Canada**
352.323.3500 **International**

Section 2. Hazards identification

GHS Classification:

Skin corrosion/irritation(Category 1A, 1B, 1C)
Serious eye damage/eye irritation(Category 1)
Acute toxicity, inhalation(Category 1,2)
Acute toxicity, dermal(Category 1, 2)
Acute toxicity, oral(Category 1, 2)
Hazardous to the aquatic environment, long-term hazard(Category 3)
Serious eye damage/eye irritation(Category 2A)
Acute toxicity, inhalation(Category 4)

Pictogram(s):

Signal Word: **DANGER**

Hazard Statements:

H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H330 Fatal if inhaled
H310 Fatal in contact with skin
H300 Fatal if swallowed
H412 Harmful to aquatic life with long lasting effects
H319 Causes serious eye irritation
H332 Harmful if inhaled

Precautionary Statement(s):

P260 Do not breathe dust/fumes/gas/mist/vapours/spray
P262 Do not get in eyes, on skin, or on clothing
P264 Wash ... thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P284 Wear respiratory protection
P310 Immediately call a POISON CENTER or doctor/physician
P363 Wash contaminated clothing before reuse
P405 Store locked up
P501 Dispose of contents/container in accordance with federal, state and/or local regulations

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

Section 3. Composition/information on ingredients

Name	CAS number	% Less Than
Hydrofluoric acid	7664-39-3	10.0000
Sulfuric Acid	7664-93-9	35.0000

The chemical identity of some or all components is confidential business information (trade secret) and is being withheld as permitted by 29CFR19191200 (i). No other ingredients known to be hazardous.

Section 4. First aid measures

Eye contact: Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: Wash skin surfaces thoroughly after contact. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation: Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

General: Physicians: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been inhaled or ingested. Consult a physician. Show this safety data sheet to the doctor in attendance. Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the flouride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas & should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tables or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesia & cardiac arrhythmias should be monitored for, since they can occur after exposure. Move out of dangerous area.

See Section 11 for exposure symptoms.

Section 5. Fire-fighting measures

Flammability: In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Protective Equipment: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positve pressure mode.

Additional Information: Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/ oxides, halogenated compounds.

Section 6. Accidental release measures

Personal Precautions: No action should be taken involving individual risk or without suitable training. Isolate area. Avoid contact with material. Do not breath vapors. Provide adequate ventilation. Wear proper personal protective equipment.

Environmental: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product reaches sewers, waterways or soil.

Containment/Cleanup: Stop leak if without risk. Move containers from spill area. Contain or absorb with inert dry material. Dispose of according to local regulations. See Section 1 for emergency contact information and 13 for waste disposal.

Section 7. Handling and storage

Safe Handling: Wear appropriate personal protective equipment (see Section 8). Eating drinking and smoking should be prohibited. Do not get into eyes or on skin Do not ingest. Keep containers tightly closed. Do not reuse container.

Safe Storage: Store in accordance with local regulations. Store in original container away from foods, drink and incompatible materials. Keep container tightly closed. Do not store unlabeled. Use appropriate containment.

Section 8. Exposure controls/personal protection

Engineering Controls: Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eyewash stations, showers where necessary.

Eye Protection: Safety eyewear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Respiratory Protection: Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.

Hand Protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

COMPONENT	ACGIH TWA ppm	OSHA/NIOSH STEL ppm	OSHA/ACGHI STEL mg/m3
Hydrofluoric acid	0.5		
Sulfuric Acid			0.2

Section 9. Physical and chemical properties

Physical State:	Liquid
Color:	Yellow
Odor:	Acid
Odor Threshold:	N/E
pH:	<1
Melting Point:	N/E
Freezing Point:	N/E
Boiling Point:	N/E
Flash Point:	Nonflammable
Evaporation Rate:	N/E
Flammability:	Nonflammable
Upper Explosive Limits:	N/A
Lower Explosive Limits:	N/A
Vapor Pressure:	N/E
Vapor Density:	N/E
Relative Density:	N/E
Solubility:	Complete
Partition coefficient:	N/E
Auto-Ignition Temperature:	N/E
Decompostion Temperature:	N/E
Specific Gravity:	1.290
% Volatile:	N/E

Section 10. Stability and reactivity

Reactivity: Reactive with matals

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None under normal conditions.

Conditions to avoid: AVOID HEAT and open flames

Incompatible materials: STRONG OXIDIZERS, ALKLAIS, reacts with metals producing flammable hydrogen gas which can form explosive mixtures with air

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Routes of entry: ____ **Inhalation** _X_ **Absorption** _X_ **Ingestion**

Acute Exposure Hazards:

Eye contact: Severe eye irritation, burns

Dermal: Skin irritation, can cause burns with contact

Oral: Corrosive to mucous membranes.

Inhalation: MIST MAY BE MILD TO STRONG IRRITANT, CORROSVE.

COMPONENT	Result	Species	Dose	Exposure

Section 12. Ecological information

Ecotoxicity: No data available.

Persistance & degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Component	Result	Species	Dose	Exposure

Section 13. Disposal considerations

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14. Transport information

DOT (US)

UN Number: UN1760
Shipping Name: CORROSIVE LIQUIDS, N.O.S.
Technical Name: (HYDROFLUORIC ACID, SULFURIC ACID)
Hazard Class: 8
Packaging Group: II

Section 15. Regulatory information

SARA 313 Components	CAS No.	% Less Than
Hydrofluoric acid	7664-39-3	10.0000
Sulfuric Acid	7664-93-9	35.0000

California Prop. 65 Components	CAS No.	% Less Than

Section 16. Other information

Hazardous Material Information System (U.S.A.)

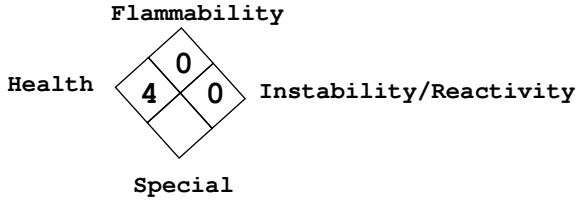
Health Hazard	**4**
Fire Hazard	**0**
Reactivity	**0**
Personal Protection	**H**

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

PERSONAL PROTECTION INDEX

A	Safety Glasses
B	Safety Glasses, Gloves
C	Safety Glasses, Gloves, Apron
D	Face Shield, Gloves, Apron
E	Safety Glasses, Gloves, Dust Respirator
F	Safety Glasses, Gloves, Apron, Dust Respirator
G	Safety Glasses, Gloves, Vapor Respirator
H	Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
I	Safety Glasses, Gloves, Dust & Vapor Respirator
J	Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
K	Airline Hood or Mask, Gloves, Full Suit, Boots
X	Consult your supervisor for special handling directions

National Fire Protection Association (U.S.A.)



NFPA warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals.

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