ALUBRITE

Section I-IDENTIFICATION

Product name: Alubrite
Recommended use: Foamy Concentrate Acid Coil Cleaner and Brightener
Supplier Name: Al Nisr Al Abyad General trading LLC
United Arab Emirates

Emergency Contact No.: 00971 (04) 360 5617

Date Revised :12/11/2019

HMIS DATA	0=NONE
Health=2	1=Slight
Fire=0	2=Moderate
Reactivity=0	3= High
	4= Extream

Section II-HAZARDOUS INGREDIENTS INFORMATION

Ingredient	CAS No.	OSHA PEL	ACIGH	OTHER STEL	PERCENTAGE
Water	**7732-18-5**				80.90%
Alcohol Ethoxylates	68439-46-3				07.00%
Phosphoric acid	7664-38-2	1 mg/m ^{3}	1 mg/m ^{3}	3mg/m^3	02.50%
Hydrofluoric acid	7664-39-3	3 mg(F)/m ^{3}	3 mg(F)/m^3	6 mg(F)/m^3	09.60%

Section III-PHYSICAL/CHEMICAL PROPERTIES

Corrosive product. Wear gloves and eye goggle when in use.
EPA Hazard Categories: Acute-Health; Chronic-Health

Boiling Point: 214°F
Vapor pressure (mm Hg): 17
Vapor Density (Air =1): 2.45
Solubility In Water: Water miscible
Specific gravity (H2O=1): 1.03
Melting Point (Pour Point): 30°F
Evaporation Rate (Water=1): 1
Viscosity: Same as water
Appearance and Odor: Clear red liquid with an penetrating acrid odor

Section IV-FIRE AND EXPLOSION DATA

Flash Point (Method used) : None (C (TCC)
Flammable Limits: LEL: N/A; UEL: N/A
Extinguishing Media : Use media appropriate to surrounding fire.

Special fire-fighting Procedures : Mists and fumes are corrosive and harmful. Firefighters should wear self-contained breathing apparatus and full protective gear when fighting fires involving this product.

Unusual Fire and Explosion Hazards: This product reacts with metal, and may liberate hazardous quantities of hydrogen gas.

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Section V-REACTIVITY DATA

Stability : Stable

Compatibility : (Materials to avoid): Do not mix this product with alkalis or any other material. Do NOT allow contact with glass.

Hazardous Decomposition or by products: HF, Hydrogen gas.

Hazardous Polymerization: Will not occur

Section VI-HEALTH HAZARD DATA

Route of entry: Inhalation: yes Skin: yes Eyes: yes Ingestion: yes

Health Hazards (acute and chronic): This material is corrosive to skin, eyes, and internal Organs.

Signs and Symptoms of Exposure: -

Eye Contact: Severe irritation and possible burns.

Skin Contact: Severe irritation and possible chemical burns. Symptoms may be delayed for up to 24 hours.

Inhalation: Mists may irritate respiratory system and cause difficulty breathing.

Ingestion: Solutions and mists are extremely corrosive and toxic. May cause gastric distress, diarrhea, and vomiting. May be fatal if swallowed.

Medical conditions generally aggravated by exposure: Contact may aggravate pre-existing Medical conditions such as dermatitis or asthma.

Carcinogenicity:

NTP? No., IARC? No., OSHA? No.

Emergency and First Aid Measures:

Eye Contact: Contact a physician and start treatment immediately!

1. Immediately flush the eyes with large amounts of gently flowing water for 15 minutes. Hold the eyelids open and away from the eyes during irrigation. Do not put any treatment into eyes Unless directed by a physician.
2. Take the victim to a doctor, preferably an eye specialist, as soon as possible after the 15-minute rinse. Ice water compresses should be applied to the eyes while transporting the victim.
3. If a physician is not immediately available, irrigate the eyes with 500-1000 ml irrigation of 1% calcium gluconate aqueous ophthalmic solution followed by an n additional 15-minute irrigation. Do not apply any other medication unless instructed to do so by a physician. Avoid rubbing eyes,

Emergency and First Aid measures (cont'd)

Skin Contact: Contact a physician and start treatment immediately!

Note: For skin contact or suspected contact

Move victim immediately under a safety shower or other water source and flush the affected area with large amounts of tempered running water. Speed of washing off the acid is of primary importance. Remove all clothing and footwear while continuing to flush with flowing water. Continue washing for at least 15 minutes.
Get the victim to a physician as quickly as possible after the 15-minute flushing.

Inhalation: **Contact a physician and start treatment immediately**!

1. Remove victim to fresh air. Make sure mouth and throat are clear of obstructions. If Necessary, support breathing with artificial respiration.
2. Keep victim warm, quiet, and lying down.
3. Do not give stimulants unless directed by physician.
4. Do not allow the victim to become active for 24 hours. During this time, the victim should be Examined by a physician and held under observation.

Ingestion: **Contact a physician and start treatment immediately!**

1. Have the victim drink 3-4 glasses of water as quickly as possible to dilute the product. Do Not induce vomiting. Do not give emetics or baking soda. Never give anything by mouth to An unconscious person.
2. Give several glasses of milk or several ounces of milk of magnesia for their soothing effect. The calcium or magnesium in these compounds also acts as an antidote.
3. Get medical attention immediately.

Notes to Physician: Treat as Hydrofluoric Acid Burn. Burns around fingernails or toenail are difficult to treat as the acid may penetrate the nails. Treatment may require removal of the nail.

For minor burns to the face and mucous membranes, an ointment containing 2.5% calcium gluconate may be used in lieu of HYAMINE or ZEPHIRAN solutions. The jelly may be massaged into the burn. A possible treatment is subcutaneous injection of sterile 2.5% calcium gluconate solution around and beneath the skin and in the burned areas. Initially use no more than 0.5cc per square centimeter of affected skin surface, and do not distort the appearance of the skin. If pain is not relieved, additional treatment may be indicated. Obtain additional information on treating hydrofluoric acid burns from a poison control center.

Special notes to treating physician:
Medical personnel treating any victim of hydrofluoric acid exposure should be aware of the following possible complications:

1. Shock
2. Inhalation of vapors can cause pulmonary edema for which effects may be delayed. In addition, vapors may burn oral tissue causing swelling which may restrict breathing.
3. Exposure to significant amounts of hydrofluoric acid by any route may also result in hypocalcaemia. Hypocalcaemia should be considered a risk in all instances of inhalation and ingestion, and whenever burns exceed 25 square inches (160 square centimeters of body surface.

Section VII-PRECAUTIONS FOR HANDLING AND STORAGE

STEPS TO BE TAKEN IN MATERIAL IS SPILLED OR RELEASED:

Note: No cleanup should be attempted until cleanup personnel are equipped with personnel protective gear to prevent contact with product. (Applies to undiluted product.)

Spills: Neutralize with sodium bicarbonate, soda ash, or lime. Pick up neutralized solution with a plastic pump or vacuum truck and store the neutralized solution in a leak-proof polyethylene container until product can be disposed of in a hazardous waste facility. Flush area twice with water to remove any remaining residues. Store wash solution in polyethylene containers for disposal.

Waste Disposal: Dispose of wastes in accordance with federal, state, and local regulations, or consign to a licensed hazardous waste contractor.

HANDLING AND STORAGE:

Keep containers closed when not in use. Practice good housekeeping. Wash hands after handling. Avoid smoking when using this product. Wash clothing that has become contaminated. Keep out of reach of children. Read the disposal information before disposing of leaking or empty containers. Avoid breathing mists or spray. Avoid contact with eyes. Use only with adequate ventilation. Do not use metal measuring containers for handling this product. Make sure all safety equipment is available and protective clothing is in use before handling this product.

Section VIII- CONTROL MEASURES

Note: ALL personnel protective equipment should be approved with solutions of hydrofluoric acid. This product should only be used in areas where emergency eyewash and a source of running water is available for first aid procedures.

approved respirator is recommended. DO NOT USE INDOORS OR IN ENCLOSED AREAS.

RESPIRATORY PROTECTION: For normal and approved outdoor use, a NIOSH/MSMA

VENTILATION: Not for use in enclosed areas.

EYE PROTECTION: Wear chemical goggles or safety glasses with side shields to minimize contact.

SKIN PROTECTION: Wear rubber or neoprene gloves as necessary to minimize skin contact.

OTHER PROTECTIVE EQUIPMENT: Wear other waterproof clothing and footwear as required to prevent contact.

Section IX-ADDITIONAL INFORMATION

Environmental Biodegradability: Biodegradable

Waste Disposal Methods: Dispose of in an authorized waste facility, in accordance with federal, state, and local regulations.

Empty Container Handling: Warning! Emptied container retains product residue. Observe all Precautions even after the container is emptied. Keep empty container closed tightly. Do not use empty container for storing food, drinking water or cosmetics.

Dot Classification: Corrosive Liquid, acidic, inorganic, NOS (Contains Phosphoric acid and Hydrofluoric acid) 8, UN3264, PGII

DOT Hazard Label: Corrosive

TSCA: The ingredients in this product are listed on the TSCA Inventory.

SARA TITLE III Reporting Requirements: None

Section 302-Extremely-Hazardous Substances: Reporting not required.

Section 304-Hazardous Releases: Reporting not required.

Section 311- Community Right to Know (R-T-K): Reporting required for quantities above the TPQ (Threshold Planning Quantity)

Section 312-R-T-K Inventory Reporting Data: Required for inventory above the TPQ.

Section 311 and 312 Hazard Categories:

Immediate (Acute) Health Hazard	: Yes
Delayed (Chronic) Health Hazard	: Yes
Fire Hazard	: No
Reactivity Hazard	: No
Sudden Release of Pressure	: No

SARA 313 Notification: Reporting may be required for users of this product within the Manufacturing sector (S.I.C. 20-30). This does not apply to service companies.

CERCLA: Same as Section 304

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed.

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