



SDS

SAFETY DATA SHEET

Date prepared: November 19, 2020

Revision: 1
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1. Product and Company Identification

Company
VALUE PRODUCTS, INC.
2128 Industrial Drive
Stockton, CA 95206

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300

PRODUCT NAME: A-LUMINATE HF
CHEMICAL NAME: ACID- SURFACTANT BLEND
MANUFACTURED FOR:

PRODUCT CODE: 2499

2. Hazards Identification

EMERGENCY OVERVIEW: DANGER, POISONIS, CORROSIVE. Extremely hazardous liquid and vapor. Causes severe burns which may not be immediately painful or visible. Maybe fatal if swallowed or inhaled. Liquid and vapor can burn skin, eyes, and respiratory tract. Causes bone damage. Reaction with certain metals generates flammable and potentially explosive hydrogen gas.

GHS Pictogram:



Precautionary Statement: Wear rubber gloves, face shield, rubber boots, rain suit and safety glasses when handling this product. Wash hands thoroughly after handling.

SIGNS AND SYMPTOMS OF EXPOSURE (SKIN, EYE CONTACT; INHALATION; INGESTION)

EYE CONTACT : Causes severe damage to eyes if not properly and immediately treated. Destructive to eye tissues.

INHALATION : Serious irritation to respiratory tract. A burning sensation in the nose, throat as well as coughing and choking may be noted. Continued deep inhalation may cause damage to lung tissues.

INGESTION : Causes irritation of mouth, throat, and gastrointestinal tract. Nausea, vomiting, diarrhea may also occur. The material is poisonous to health if ingested.

SKIN CONTACT : Immediate local reaction including redness, itching, irritation, followed by loss of surface layers of the skin. Prolonged contact will cause severe irritation to skin and mucous membrane, and possibly chronic dermatitis.

3. Composition/ Information on Ingredients

MATERIAL (BASED ON 100% FORMULA LEVEL)	CAS#	% WEIGHT
HYDROGEN FLUORIDE	7664-39-3	< 12%
SULFURIC ACID	7664-93-9	< 12%

4. First Aid Measures

EYE CONTACT : Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids to ensure flushing of the entire surface. Seek medical attention immediately.

INHALATION : Remove to fresh air. Get medical attention as soon as possible.

INGESTION : If swallowed never give anything by mouth to an unconscious person. Do not induce vomiting. Give large quantities of milk, milk of magnesia, raw eggs or water to drink followed by vegetable or mineral oil. Seek medical attention.

SKIN CONTACT : Wash skin with lots of soap and water. Remove contaminated clothing and shoes. Wash before reuse. Seek immediate medical attention.

NOTE TO PHYSICIAN:

GENERAL: For burns of moderate areas, (greater than 8 square inches), ingestion and significant inhalation exposure, severe systemic effects may occur, and admission to a critical care unit should be considered. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia and hyperkalemia. In some cases, renal dialysis may be indicated.

INHALATION: Treat as chemical pneumonia. Monitor for hypocalcemia, 2.5% calcium gluconate in normal saline by nebulizer or by ippb with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered.

SKIN: For deep skin burns or contact with concentrated hf (over 50%) solution, consider infiltration about the affected area with 5% calcium gluconate (equal parts of 10% calcium gluconate and sterile saline for injection). Burns beneath the nail may require splitting the nail and application of calcium gluconate to the exposed nail bed. For certain burns, especially of the digits, use of intra-arterial calcium gluconate may be indicated.

EYES: Irrigation may be facilitated by use of morgan lens or similar ocular irrigator, using 1% aqueous calcium gluconate solution (50ml of calcium gluconate 10% in 500ml normal saline).

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Water spray, foam, carbon dioxide maybe used.

UNUSUAL FIRE OR EXPLOSIVE HAZARD: Contact with aluminum to produce flammable/ explosive hydrogen-air mixture.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Isolate area. Keep unnecessary personnel away.

ENVIRONMENTAL PRECAUTIONS: Keep out of sewers, storm drains, and waterways.

CLEAN-UP PROCEDURES: Only trained and properly protected personnel should be involved in spill clean-up operations. Wear alkaline-resistant suit and complete protective equipment; rubber gloves, rubber boots, and chemical goggles. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place material in sealable waste containers for disposal.

RECOMMENDED WASTE DISPOSAL METHOD: The materials resulted from the clean-up operation may be hazardous, therefore, are subjected to specific regulations. Dispose of in accordance with all applicable Federal, State and Local regulations. Ensure that all applicable agencies receive proper notification of spill and disposal methods.

7. Handling and Storage

HYGIENIC PRACTICES IN HANDLING AND STORING: Wash thoroughly after handling. Avoid body contact.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Store in original container at cool, dry, well ventilated areas. Avoid any contamination to food lines. Away from strong bases.

DISPOSAL OF EMPTY CONTAINER: Empty containers should be triple rinsed with water and disposed of pursuant to Local, State, and Federal requirements.

8. Exposure Controls / Personal Protection

RESPIRATORY PROTECTION: NIOSH approved respirator for organic vapor/ mists.
NIOSH- MSHA approved self- contained breathing apparatus is recommended if vapors level exceeds TLV.

EYE PROTECTION: Safety Goggles or Full face shield.

PROTECTIVE CLOTHING: Rubber gloves, Boots, Full length clothing.

VENTILATION: Local exhaust

OTHER PROTECTIVE MEASURES: Eyewash fountain and safety shower should be nearby and ready for use..

9. Physical and Chemical Properties

<i>BOILING POINT:</i> >200 °F	<i>VOLATILE:</i> 85%
<i>FREEZING/MELTING POINT:</i> Unknown	<i>FLASH POINT:</i> Unknown <i>METHOD USED:</i> CC
<i>VAPOR PRESSURE: (AIR=1):</i> >1	<i>VAPOR DENSITY:</i> Unknown
<i>EVAPORATION RATE (WATER =1):</i> >1	<i>SOLUBILITY IN WATER:</i> Complete
<i>PH CONCENTRATE:</i> 1 +/- 0.2	<i>VISCOSITY:</i> 25 @ 68° F
<i>SPECIFIC GRAVITY:</i> 1.08 +/-0.2	
<i>DESCRIPTION:</i> Colorless, fuming liquid	

10. Stability and Reactivity

STABILITY: Stable at room temperature (68°F) when stored and used under proper conditions.

INCOMPATIBILITY (MATERIALS TO AVOID): Hydrofluoric acid is incompatible with arsenic trioxide, phosphorus pent oxide, ammonia, calcium oxide, sodium hydroxide, vinyl acetate, ethylenediamine, acetic anhydride, alkalis, organic materials, most common metals, rubber, leather, strong bases, carbonates, sulfides, cyanides, oxides of silicon, especially glass, concrete, silica, fluorine. Will also react with steam to produce toxic fumes.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Direct flame.

HAZARDOUS DECOMPOSITION: On contact with metals, liberates hydrogen gas. On heating to decomposition, could yield toxic fumes of fluorides. Attacks glass and other silicon containing compounds. Reacts with silica to produce silicon tetra fluoride, a hazardous colorless gas.

11. Toxicological Information

ROUTES OF ENTRY: Absorbed through skin. Inhalation. Ingestion.

CARCINOGEN: There is no evidence this product poses a carcinogenic risk under normal conditions of handling or use.

ACUTE EYE IRRITATION: Unknown

ACUTE SKIN IRRITATION: Unknown
 ACUTE DERMAL TOXICITY: Unknown
 ACUTE RESPIRATORY IRRITATION: Unknown
 ACUTE INHALATION TOXICITY: Unknown
 ACUTE ORAL TOXICITY: Unknown
 CHRONIC TOXICITY: Unknown

12. Ecological Information

ECO-TOXICOLOGICAL INFORMATION: Unknown
 CHEMICAL FATE INFORMATION: Unknown

13. Disposal Considerations

Recommended Waste disposal method:

Dispose of in accordance with all applicable Federal, State and Local regulations. Ensure that applicable agencies receive proper notification of spills and disposal methods.

Container disposal:

Empty containers should be tripled rinsed with water and disposed of pursuant to Local, State, and Federal requirements.

14. Transport Information

ID NUMBER: UN 1790
 PROPER SHIPPING NAME: Hydrofluoric acid solution
 HAZARD CLASS: Corrosive, poison 8, 6.1 Hydrofluoric Acid solution (<60%)
 PACKING GROUP: II

15. Regulatory Information

Federal Regulations: None known

State Regulations; California Proposition 65 – WARNING: This product can expose you to strong inorganic mists containing Sulfuric Acid, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California State Right to Know (SB258):

Chemical Name	CAS-No.	Function	List (s)
Water	7732-18-5	Solvent	N/A
Hydrofluoric Acid	7664-39-3	Descaler	18, 20
Sulfuric Acid	7664-93-9	Descaler	15, 20, 24
Nonylphenol Polyethylene Glycol Ether	127087-87-0	Wetting Agent	N/A
Polyethylene Glycol	25322-68-3	Wetting Agent	N/A
Polyoxyethylene Dinonylphenol	9014-93-1	Wetting Agent	N/A
Quaternary Ammonium Compounds, Coco Alkylbis(hydroxyethyl)methyl, Ethoxylated, Chlorides	61791-10-4	Wetting Agent	N/A

16. Other Information

THE INFORMATION CONTAINED HEREIN, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, IS ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.