
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Brite' Alum
PRODUCT CODES: 660000000

MANUFACTURER: QuestVapco Corp.
ADDRESS: P.O. Box 624
Brenham, TX 77834

EMERGENCY PHONE: 1-800-231-0454
CHEMTEL PHONE: 1-800-255-3924
OTHER CALLS: 1-800-231-0454

PRODUCT USE:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>
Hydrofluoric Acid	7664-39-3	3 ppm	2 ppm

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive to Skin, eyes, respiratory tract, and toxic if ingestion

ROUTES OF ENTRY: Skin, Skin Absorption, Eyes, Respiratory Tract, and Ingestion

POTENTIAL HEALTH EFFECTS

EYES: Vapors, liquid, or mist are irritating and causes stinging, tearing, redness, swelling, severe burns and can results in corneal damage and blindness. Burning may not be immediately painful or visible.

SKIN: Cause redness, pain, and severe burns to skin. Concentrated solutions cause deep ulcers and discolor skin. Exposure to liquid, vapor, or mist causes severe skin irritation. HF will penetrate skin and attack underlying tissue and bone. Large burns have resulted in the removal of calcium from the bone.

INGESTION: May be harmful or fatal if swallowed. Causes severe gastrointestinal irritation, diarrhea, nausea, vomiting, abdominal pain, vomiting of blood, and burns to the mouth, throat, digestive tract and severe gastrointestinal irritation. The body will be depleted of calcium if not properly treated.

INHALATION: Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, headache, dizziness, nausea, and difficulty breathing. Prolonged or repeated exposure especially when sprayed may cause irreversible respiratory tract damage and/or may be fatal.

ACUTE HEALTH HAZARDS: Corrosive to body tissues.

CHRONIC HEALTH HAZARDS: Possible liver, Kidney, blood damage, dental or skeletal fluorosis,

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting disorders of Skin and lungs.

CARCINOGENICITY **OSHA:** No **ACGIH:** NO **NTP:** No **IARC:** No **OTHER:**

SECTION 4: FIRST AID MEASURES

EYES: Flush with water immediately for at least 15 minutes holding eye lids open. Seek immediate medical attention. Rinse the eyes with a calcium gluconate 1% solution in physiological serum (10 ml of calcium gluconate 10% in 90 ml of physiological serum)

SKIN: Remove contaminated clothing and shoes immediately. Wash with large amounts of soap and water. After Immediately apply calcium gluconate gel 2.5% and massage into affected area using rubber gloves; continue to massage while repeatedly applying gel for 15 minutes after pain is relieved. If fingers/finger nails are touched, even if there is no pain, dip them in a bath of 5% calcium gluconate for 15 to 20 minutes. Keep warm and in a quiet place. Seek immediate medical attention. Discard contaminated shoes.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and seek immediate medical attention.

SWALLOWING: Do not induce vomiting. Vomiting will cause further damage to the throat. Immediately rinse mouth with water and dilute the swallowed material with milk or water. Seek immediate medical attention. Give a 1% aqueous calcium gluconate solution to drink.

MATERIAL SAFETY DATA SHEET

Brite' Alum

FILE NO.: 660000000**MSDS DATE:** 10/19/2011**SECTION 5: FIRE-FIGHTING MEASURES**

FLASH POINT: F: N/A C: N/A **METHOD USED:** **FLAMMABLE LIMITS IN AIR (% By Volume)** **UPPER:** N/A **LOWER:** N/A**AUTOIGNITION TEMPERATURE:** F: N/A C: N/A**NFPA HAZARD CLASSIFICATION** **HEALTH:** 4 **FLAMMABILITY:** 0 **REACTIVITY:** 1 **OTHER:****HMIS HAZARD CLASSIFICATION** **HEALTH:** 4 **FLAMMABILITY:** 0 **REACTIVITY:** 1 **PROTECTION:** D**EXTINGUISHING MEDIA:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**FIRE FIGHTING PROCEDURES:** Wear Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fire fighting.**SPECIAL FIRE AND EXPLOSION HAZARDS:** This product contains a large amount of water and will not burn under normal fire conditions.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon, acid vapors, hydrogen gas. May react with metal to release highly flammable hydrogen gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear recommended protective equipment. Dike spilled material. Recover as much spilled product as possible and collect in acid-resistant container. Neutralize with alkaline material (soda ash, lime), then use absorbent inert material and place in chemical waste container. Prevent from entering sewers, water sources or low lying areas. Ventilate area well before re-entry. Follow Local, State, and Federal regulations for proper disposal.**Large Spill:** Only personnel trained in spill clean-up under 29 CFR 1910.120 should be involved with spill clean-up procedures. If run-off occurs notify appropriate authorities as required.**SECTION 6 NOTES:** Waste and its solutions are assigned EPA Hazardous Waste number D002 and can be disposed of through a licensed waste disposal company.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Loosen closure carefully. Minimize temperature extremes. Store in cool, dry, ventilated area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat and incompatible materials. Keep containers closed when not in use. Do not wash out container and use for other purposes. When diluting, always add the acid to water; never water to acid. Protect from freezing.**OTHER PRECAUTIONS:** Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product. Keep out of the reach of children

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation should be used.**RESPIRATORY PROTECTION:** Not required under normal conditions of use. If product is sprayed or used in a confined area a NIOSH / MSHA approved respirator may be advised in absence of proper environmental control. See 29 CFR 1910.134 or your safety equipment supplier.**VENTILATION:** Provide sufficient mechanical ventilation (general and/or local exhaust) to maintain exposure below the recommended exposure limits.**PROTECTIVE GLOVES:** Wear chemical resistant gloves such as neoprene or PVC. Contact your safety equipment supplier.**EYE PROTECTION:** Chemical splash goggles and face shield.**SKIN PROTECTION:** Rubber or neoprene gloves**OTHER PROTECTIVE EQUIPMENT:** Apron, may wear impervious clothing and boots. Prevent skin contact.**WORK HYGIENIC PRACTICES:** Avoid contact with skin or eyes and avoid breathing vapors. Wash hands after use.

MATERIAL SAFETY DATA SHEET

Brite' Alum

FILE NO.: 660000000**MSDS DATE:** 10/19/2011**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear Water White Liquid**ODOR:** No odor**pH AS SUPPLIED:** Acidic**BOILING POINT:** F: >212 C: >100**FREEZING POINT:** F: <32 C: <0**VAPOR PRESSURE (mmHg):** 17.5 @ F: 68 C: 20**VAPOR DENSITY (AIR = 1):** < 1.0 @ F: 75 C: 23**SPECIFIC GRAVITY (H₂O = 1):** 1.016 @ F: 75 C: 23**EVAPORATION RATE: BASIS (Butyl Acetate =1):** <1.0**SOLUBILITY IN WATER:** 100%**PERCENT VOLATILE:** >80% BY WT/ BY VOL @ F: C:**VOLATILE ORGANIC COMPOUNDS (VOC):** WITHOUT WATER: 0 LBS/GAL

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE: X UNSTABLE:**CONDITIONS TO AVOID (STABILITY):** Avoid contact with glass, metals**INCOMPATIBILITY (MATERIAL TO AVOID):** Avoid strong oxidizing agents, caustic materials, alkali metals and glass. Do not mix with any products.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of Carbon, acid vapors, hydrogen gas.**HAZARDOUS POLYMERIZATION:** will not occur**CONDITIONS TO AVOID (POLYMERIZATION):** None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Hydrofluoric Acid - 7664-39-3 - LD 100 Oral, guinea pig, 80 mg/kg (2% solution); LC50 Inhalation, 1 h, rat, 850- 1,070 mg/m³; Corrosive

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available for mixture

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, State and Federal regulations**SECTION 13 NOTES:** This product may be classified as an RCRA Hazardous Waste D002 due to the pH of the solution and the corrosive characteristic.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Consumer commodity
HAZARD CLASS: 8
ID NUMBER: UN 3264
PACKING GROUP: II
LABEL STATEMENTS: Corrosive, Toxic

WATER TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS: 8
ID NUMBER: UN 3264
PACKING GROUP: II
LABEL STATEMENTS: Corrosive, Toxic

AIR TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS: 8
ID NUMBER: UN 3264
PACKING GROUP: II
LABEL STATEMENTS: Corrosive, Toxic

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All chemical are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None known

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302 HAZARD CATEGORIES: Hydrofluoric Acid - 7664-39-3

311/312 HAZARD CATEGORIES: Hydrofluoric Acid - 7664-39-3 – Acute health, chronic health

313 REPORTABLE INGREDIENTS: Hydrofluoric Acid - 7664-39-3;

STATE REGULATIONS: Contains no chemicals known to the state of California under Prop 65 as known to cause cancer or teratogen.

New Jersey Worker and Community Right-to-Know Act; Pennsylvania Worker and Community Right-to-Know Law;

INTERNATIONAL REGULATIONS: In compliance with inventory for the following: Australian Inventory of Chemical Substances AICS, Inventory of Existing Chemical Substances - China-(IECS), Japan (ENCS) List (ENCS (JP)), New Zealand Interim Inventory of Chems. (NZ CLSC), EU list of existing chemical substances (EINECS), Korea Existing Chemicals Inv. (KECI) (KECI CKR)), Philippines PICCS (PICCS (PH)), Canada DSL
Canada – WHMIS - Hydrofluoric Acid - 7664-39-3 - D1A Very Toxic Material Causing Immediate and Serious Toxic Effects;
E Corrosive Material

SECTION 16: OTHER INFORMATION

PREPARED BY: Juanita Mercure

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