

Flammability:	None
Flash Point (°C):	Not applicable
Upper Flammable Limit (% by volume):	Not applicable
Lower Flammable Limit (% by volume):	Not applicable
Autoignition Temperature (°C):	Not applicable
Hazardous Combustion Products:	Sulphur dioxide, sulphur trioxide
Explosive Power:	No data
Sensitivity to Static Discharge:	None
Means of Extinction:	Dry foam, dry chemical or water suitable for surrounding fire
Special Procedures:	Use water carefully, may react to too much water at once. Use water spray to cool fire exposed containers or structures. Use self contained breathing apparatus and protective clothing.

SECTION 5: REACTIVITY

Chemical Stability:	Stable. Contact of acid with organic materials may cause fire and explosions.
Under Fire Conditions:	Non flammable
Incompatibility to Products:	Strong oxidizing agents and strong alkalis. Addition to water may generate heat, always add product to water.
Reactivity, and under what Conditions:	Strong alkalis
Hazardous Decomposition Products:	Toxic gases and vapours e.g. sulphur dioxide
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Temperatures above 500°F, metal oxides, carbides, chlorates, picrates, nitrates, hydroxides, amines, carbonates
Materials to Avoid:	Contact of acid with organic materials may cause fire and explosions. Contact of acid with metals may form toxic sulphur dioxide gas and flammable hydrogen gas.

SECTION 6: TOXICOLOGICAL AND HEALTH DATA

Route of Entry Skin Contact:	Yes
Route of Entry Skin Absorption:	Yes
Route of Entry Eye Contact:	Yes
Route of Entry Inhalation Acute:	Yes
Route of Entry Inhalation Chronic:	Yes
Route of Entry Ingestion:	Yes
Reproductive Effects:	No information available
Mutagenicity:	No information available
Teratogenicity:	No information available
Carcinogenicity:	No
Synergistic Materials:	No
Sensitization to Product:	No
Exposure Limits:	Sulfuric Acid: 0.2 mg/m ³ Thoracic fraction (ACGIH), 1 mg/m ³ TWA (NIOSH)
Irritancy of Product:	Ammonium Bifluoride: 2.5 mg/m ³ Yes
LD 50 LC 50/Species/Route:	Sulfuric Acid: LD:50 2140 mg/kg (rat-oral), LC:50 510 mg/m ³ (rat-2 hrs) 1 mg/m ³ Ammonium Bifluoride: not determined
Effects of Chronic Exposure:	Severe over exposure may result in lung collapse and pulmonary oedema which can be fatal. Prolonged or repeated exposure may result in impaired lung function or discoloration and erosion of teeth.
Effects of Acute Exposure:	Immediate pain, severe burns and contact with eyes can

lead to permanent corneal damage which may result in blindness. Severe burning and pain in the mouth, throat, abdomen following ingestion. Irritating to skin.

SECTION 7: PREVENTATIVE MEASURES

Personal Protective Equipment: Protective clothing - should include coveralls, gloves, boots and eye protection.
Gloves (Specify): Rubber, neoprene
Respirator (Specify): NIOSH approved air purifying respirator equipped with acid gas cartridge should be worn if TWA will be exceeded for Sulphuric acid.
Eyes (Specify): Safety goggles, face shield
Footwear (Specify): Rubber boots
Clothing (Specify): Coveralls, rubber will be required if large spill is being dealt with
Other (Specify): Emergency shower and/or eye wash fountain
Engineering Controls: Normal ventilation, outside application is recommended
Leak and Spill Procedure: Wear protective equipment including respiratory protection and above mentioned clothing. Soak up with appropriate absorbent material, load into acid resistant containers and dispose of at approved waste facility. Dyke off area for large spills. Wash area with dilute alkali solution to neutralise residues. Do not allow to enter surface water drains.
Waste Disposal: Dispose of according to Federal, Local and Provincial Regulations.
Handling Procedures and Equipment: Carbon steel or polyphynol material are suitable for use.
Storage Requirements: Store in a cool, well ventilated area away from highly alkali type products.
Special Shipping Information: Corrosive substances, Class 8, U.N. 2796 P.G.II

SECTION 8: FIRST AID MEASURES

Skin: If splashed on skin, flush with plenty of water for 15 minutes. Remove contaminated clothing and flush skin with plenty of water. Get medical attention immediately.
Eyes: If splashed in eyes, flush with plenty of water for 15 minutes holding eye lids open. Get medical attention immediately.
Ingestion: Never give anything by mouth to an unconscious or convulsing person. Have victim rinse mouth thoroughly. Do not induce vomiting. Have victim drink 2-3 glasses of water. Transport victim to an emergency facility. Call a physician immediately. General Supportive Measure: warmth, rest.
Inhalation: Remove victim to fresh air or remove source of contamination. If person is not breathing, give artificial respiration. Get medical attention immediately.
General Advice: Keep out of reach of children.

SECTION 9: PREPARATION DATE OF M.S.D.S.

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