# ALUMINUM CHLORIDE ANHYDROUS CAS # 7446700 HAZARDOUS CHEMICAL OF CONCERN

A Special Carcinogen E Dermal Hazard I Neurotoxin

B Human Terato\Repro Haz F Corrosive J Suspect Carcinogen

C Highly Toxic G Eye Damage K Suspect Terato\Repro Haz

D Inhalation Hazard H STEL L Sensitizers

HAZARD INDEX . B . . . . G . . . . L

NFPA HAZARD CODES (H,F,R,O) 3 0 1 W

HUMAN TERATOGEN - DESIGNATED AREA MAY BE REQUIRED

REPRODUCTIVE RISK INDEX 3.7

ACUTE TOXICTY RISK INDEX 2.2 - LD50 3450.0 mg/Kg

INHALATION RISK INDEX <1 - LC50

ROUTE OF EXPOSURE

skin Contact: Causes burns.

skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of

the mucous membranes and upper respiratory tract. May be harmful

if inhaled.

Ingestion: May be harmful if swallowed.

SENSITIZATION

Sensitization: Prolonged or repeated exposure may cause allergic

reactions in certain sensitive individuals.

TARGET ORGAN(S) OR SYSTEM(S)

Damage to the lungs.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

Damage to the lungs. Material is extremely destructive to tissue

of the mucous membranes and upper respiratory tract, eyes, and

skin. Inhalation may result in spasm, inflammation and edema of

the larynxand bronchi, chemical pneumonitis, and pulmonary

edema. Prolonged exposure can cause: Symptoms of exposure may

include burning sensation, coughing, wheezing, laryngitis,

shortness of breath, headache, nausea, and vomiting.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

VAPOR PRESSURE .200 mm Hg @ 20 °C

Reacts violently with water

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

b - Pyrophoric/Water Reactive

WASTE CHARACTERISTIC HAZARD: REACTIVE TOXIC

INCOMPATIBILITIES:Mixtures of nitrobenzene and aluminum chloride are

thermally unstable and may lead to explosive decomposition due to a

multi-step decomposition reaction occurring above 90 degree C, which

self-accelerates with high exothermicity producing azo-

FIRE EXTINGUISHER: Use extinguishing media appropriate to surroundingfire

conditions. Do not use water.

TOXIC EMISSIONS WHEN BURNED: Hydrogen chloride gas Aluminum oxideHazardous

Decomposition Products Formed Upon Contact with Water: Hydrogen chloride

gas

REACTIVE PROPERTIES

HANDLING: Do not breathe dust. Do not get in eyes, on skin, on clothing.

Avoid prolonged or repeated exposure. STORAGE: Keep tightly closed. Store in

a cool dry place\. Incompatible Materials: Do not allow contact with water

Special REQUIREMENTS Store under inert gas. Vent periodically. May develop

pressure. Open carefully.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: C

Indication of Danger: Corrosive.

R: 34

Risk Statements: Causes burns.

S: 7/8-28-45

Safety Statements: Keep container tightly closed and dry. After

contact with skin, wash immediately with plenty of soap-suds. In

case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit 9.88 mg/m3

DOE Short Term Exposure Limit 9.88 mg/m3

DOE Ceiling Limit 60 mg/m3

Immediately Dangerous to Life and Health 500 mg/m3ALUMINUM CHLORIDE

The information presented in the OPMSDS is intended as a synopsis of relative hazard characteristics for this chemical, for application within the UMass-Boston Chem/XL Laboratory Program. This information is derived from a wide range of sources documented in that program. While these sources are considered credible, the user is cautioned that the university cannot guarantee the accuracy nor accept responsibility for damages which may arise from errors, omissions, or the use of this information in any context other than intended. The user is strongly encouraged to seek additional information whenever feasible.