
REACTIVITY

STABILITY: Stable
DECOMPOSITION: Will not occur
POLYMERIZATION: Will not occur
INCOMPATIBILITY: Rapidly corrodes most metals ; may generate flammable, potentially explosive hydrogen gas.

HEALTH HAZARDS

EXPOSURE LIMITS: Not specifically regulated as toxic or hazardous by OSHA. The ACGIH TLV for soluble aluminum salts is 2 mg/m³ as Al (8 hour time-weighted average).

CARCINOGENICITY: None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

TOXICOLOGY

INGESTION: When aluminum chloride is swallowed it causes acute irritation and burns of the mucous membranes of the mouth, trachea, esophagus, and stomach. There may be difficulty in swallowing and breathing due to acidic and astringent nature of the material.

EYE CONTACT: Eye contact results in severe irritation and painful burns of the eyes and eyelids. If material is not removed by copious irrigation with water at room temperature visual impairment or total loss of vision could result.

SKIN CONTACT: Skin contact may cause irritation or mild chemical burns. Skin may dry or crack due to astringent nature of material. Repeated skin contact may lead to development of dermatitis.

INHALATION: Inhalation results in coughing, burning of the nose and throat, and a choking sensation. Reactions are usually limited to inflammation and occasional ulceration of the mucosa.

FIRST AID

EYE: Immediately flush eyes for 15 minutes with plenty of water. Call a physician.

SKIN: Flush skin with water. Remove contaminated clothing; wash before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION: **DO NOT INDUCE VOMITING.** Give large quantities of water, then an antacid. Never give anything by mouth to an unconscious individual. Call a physician.

PERSONAL PROTECTION

Adequate general ventilation should be provided to keep vapor and mists below exposure limits. Wear safety glasses with side shields. Wear a face shield if possibility of material splashing or spraying exists. Where there is possibility of skin contact, use the following as appropriate: gloves impervious to material, apron, boots, hood, pants, and jacket. Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

SPILL/LEAK PROCEDURE

Review safety precautions before proceeding with cleanup. Use appropriate personal protection equipment. Neutralize spill with lime (calcium hydroxide), limestone (calcium carbonate), or soda ash (sodium carbonate). CAUTION: limestone and soda ash will evolve CO₂; ventilation should be provided in enclosed areas. Dike area around spill to prevent spreading, and use absorbent material to pick up spill.

DISPOSAL: Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product. Dispose of waste in accordance with applicable federal, state, and local laws.

SHIPPING INFORMATION

DOT

PROPER SHIPPING NAME: Aluminum chloride, solution
HAZARD CLASS: Class 8
UN/NA #: UN 2581
DOT LABELS: Corrosive
DOT PLACARDS: Corrosive
PACKING GROUP: III
REPORTABLE QUANTITY: N/A

STORAGE CONDITIONS: Keep containers closed

TITLE III HAZARD CLASSIFICATIONS

ACUTE: Yes
CHRONIC: No
FIRE: No
REACTIVITY: No
PRESSURE: No

EXTREMELY HAZARDOUS SUBSTANCE: No
TOXIC CHEMICAL: No

NFPA/HMIS RATINGS: HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0

Personal protection rating to be supplied by user depending on use conditions.

ADDITIONAL INFORMATION AND REFERENCES

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¹N/F = None found

²N/A = Not applicable