

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

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Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Product Name: AMMONIUM CHLORIDE
Common Name: Ammonium chloride-sal ammoniac
Chemical Formula: NH₄Cl
CAS No.: 12125-02-9
Ingredients: Ammonium chloride 99.5-100%(w/o anticaking agent); 99.0-99.9%
(w/anticaking agent a or b)
a- Organic surfactants 0.015%-0.025%
b- tricalcium phosphate 0.500-1.000%

SECTION 2: HAZARDOUS INGREDIENTS:

General: Can cause discomfort on contact with any part of the body or it taken internally. Vaporized gases from Ammonium chloride are considered toxic, as well as penetrating and pungent. When high concentrations do occur, those exposed should immediately leave the contaminated area.

Ingestion: Causes irritation to membranes of mouth, esophagus and gastric system.

Eye contact: Vapor, dust, or solution cause irritation.

Skin contact: Exposure to fumes, vapor or dust may result in dermatitis.

Inhalation: Excessive concentrations of vapor, fumes, and/or dust produces irritation of the upper respiratory tract resulting in coughing, excessive spitting, and choking sensation. Reactions are usually limited to mild irritation or inflammation of the nose and throat.

SECTION 3: PHYSICAL DATA

Appearance and Odor: white crystalline solid. odorless
Decomposition point: 520°C or 968°F
Vapor Pressure (mmHg): n/a
Specific Gravity (Water = 1): 1.5274 @ 25°C
Solubility in water:(by weight) 37g/100g H₂O
Volatility: n/a
Vapor Density: n/a
Sublimation point: 339°C or 542°F

SECTION 4: FIRE AND EXPLOSION DATA

Flash point: n/a
Flammable limit: n/a
Unusual Fire and Explosion Hazards: Material is not itself flammable or explosive, however it vaporizes at a relatively low temperature 339°C or 642°F. This temperature is easily achieved in a fire and as a result evolves fumes of nitrogen oxides, chloride ions and ammonia gas. All which are considered toxic.
Fire Fighting Procedures: Wear Scott Air-Pax or equivalent

SECTION 5: REACTIVITY DATA

Stable X Unstable _____
Conditions to Avoid: Somewhat hygroscopic. Has an acid reaction in aqueous solution, and the solid tends to lose ammonia and become more acid on exposure and in storage.

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Incompatibilities:	Solutions have a tendency to attack ferrous metals and other metal surfaces, especially those of copper, brass and bronze.
Hazardous Decomposition or byproducts: temperatures,	It has a high vapor pressure at elevated and sublimates readily forming equal volumes of Ammonia and Hydrogen Chloride.
Hazardous Polymerization:	n/a

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):

Ammonium chloride 10mg/m³

Tricalcium phosphate 10 mg/m³

OSHA Standard air 5 ppm

ACGIH limit values:

TWA 10mg/m, STEL 20mg/m (as nuisance dust)

Toxicity:

cytogenic analysis, hamster, fibroblast - 400mg/L

NTP:

no

IARC Monographs: no

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: If involves large quantities into environment, material should be controlled and cleaned-up according to a pre-determined affirmative, written Spill Prevention and Control Program. All personnel involved in a spill, clean-up should follow the recommendations and practices set forth in Section 10. Spills should be handled immediately by dilution of the spill produce with copious quantities of water.

Disposal: Under Federal RCRA, it is the responsibility of the use of product to determine, at the time of disposal, whether the Product falls under the RCRA as a hazardous waste. This is because product uses, transformations, synthesis, mixtures, etc. may render the resulting end-product hazardous.

SECTION 8: FIRST AID PROCEDURES

Eyes: Immediately flush eyes with large quantities of running water for at least 20 minutes. Hold eyelids apart during flushing to ensure rinsing of the entire surface of the eyes and lids with water. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional 15 minutes if the physician is not immediately available.

Skin: Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for at least 20 minutes.

Inhalation: Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the sure of a bag-mask respirator, or a manually-triggered oxygen supply capable of delivering 1L/sec or more. If victim is breathing, oxygen may be administered from a demand type or continuous flow inhalator, preferably with a physician's advice.

Contact

Ingestion: Do not induce vomiting. Administer large amounts of warm water and call physician. If patient is unconscious, do not give any medication or fluids orally.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

not available

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SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: n/a

Eye Protection: chemical safety goggles or glasses of OSHA certified model ANSI Z87.1 (1979) or equivalent should be worn at all times by persons handling or exposed to Ammonium Chloride

Protective Gloves: yes

Respiratory Protection: MSHA/NIOSH approved dust-type respirator

Other Protective Gear: clothing, footwear

SECTION 11: TRANSPORT INFORMATION

DOT classification: non hazardous

DOT pictograms: