

AMMONIUM CHLORIDE (FOOD GRADE)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: AMMONIUM CHLORIDE (FOOD GRADE)

Product Code: 5003

CAS#: 12125-02-9

Synonym: Ammonium Chloratum; Ammonium Chloridum; Ammonium Muriate; Sal Ammonia; Salmiac

Chemical Name: AMMONIUM CHLORIDE

Chemical Formula: NH_4Cl

Formula Weight: 53.49

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: AMMONIUM CHLORIDE

Toxicological Data on Ingredients:

Classification according to Regulation (EC) No 1272/2008:

Acute toxicity, Oral (Category 4), H302

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazardous in case of eye contact (irritant), Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation

Potential Acute Health Effects:

Carcinogenic Effects: Not Available

Mutagenic Effects: Not Available

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not Available



Flash Points: Not Applicable
Flammable Limits: Not Applicable
Products of Combustion: Not Applicable
Fire Hazards in Presence of Various Substances: Not Applicable
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available
Risks of explosion of the product in presence of mechanical impact: Not Available
Risks of explosion of the product in presence of static discharge: Not available
Fire Fighting Media and Instructions:
Small fire: Not Applicable
Large fire: Not Applicable
Special Remarks on Fire Hazards: Not Applicable
Special Remarks on Explosion Hazards: Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

SECTION 7: HANDLING AND STORAGE

Precautions: Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes

Storage conditions: Keep container tightly closed. Keep container in a cool, well-ventilated area

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Personal Protection: Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent

Personal Protection in Case of a Large Spill: Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Solid
Odor	:	Not available
Taste	:	Not available
Color	:	White
Molecular Weight	:	53.49
PH	:	4.5 – 6.0
Boiling Point	:	Not available
Melting Point	:	338°C
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available

Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	See solubility in water
Solubility	:	Freely Soluble in water

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable.

Instability Temperature: Not available

Conditions of Instability: Incompatible materials, moisture

Incompatibility with various substances: Slightly reactive to reactive with acids

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Decomposes in hot water, yielding ammonia and carbon dioxide. Air sensitive.

Decomposes on exposure to air with loss of ammonia and carbon dioxide becoming white and powdery and converting to ammonium bicarbonate. Sensitive to light.

Special Remarks on Corrosivity: Not available

Polymerization: No

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Dermal contact, Eye contact, Inhalation, Ingestion.

Toxicity to Animals:

LD₅₀: Not available

LC₅₀: Not available

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available

Special Remarks on Chronic Effects on Humans: Not available

Special Remarks on other Toxic Effects on Humans: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available

BOD and COD: Not Available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable

Special Provisions for Transport: Not applicable



SECTION 15: REGULATORY INFORMATION

Federal and State Regulations: Pennsylvania RTK: Ammonium bicarbonate Massachusetts RTK: Ammonium bicarbonate TSCA 8(b) inventory: Ammonium bicarbonate CERCLA: Hazardous substances.: Ammonium bicarbonate

Other Regulations: Not available.

Other Classifications: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC): R36/37/38- Irritating to eyes, respiratory system and skin. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard: Not Available²

Protective Equipment: Gloves, Lab coat, Safety glasses, and Dust respirator - be sure to use an approved/certified respirator or equivalent

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements

SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.

H302 Harmful if swallowed

Other Special Considerations: Not available

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