Material Safety Data Sheet



Ammonium Chloride

Revised: 12/19/2012 **Replaces:** 12/19/2012 **Printed:** 06/21/2013

Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Ammonium Chloride Product Code(s): 843800, C70384, C71781 Size: 0.8 g, 20 g, 500 g Chemical Name: Ammonium Chloride CAS Number: 12125-02-9 Formula: NH4Cl Synonyms: Sal Ammoniac, Ammoneric, Ammonium Muriate Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215 Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

 Emergency Overview:
 Harmful if swallowed. Irritating to skin. Decomposition produces noxious fumes.

 Potential Health Effects:
 Eyes: May cause irritation.

 Eyes:
 May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Ammonium Chloride (CAS #10043-52-4) 99% TLV units: 10 mg/m3 TWA (fume), 20 mg/m3 STEL (fume) PEL units: 10 mg/m3 TWA, 20 mg/m3 STEL

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. **Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): NFPA Rating: Health: 1 Fire: 0 Reactivity: 0 Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume:

Autoignition Temperature: >400 ?C

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Thermal decomposition produces highly toxic fumes. Explosive reaction with potassium chlorate or bromine trifluoride. Violent reaction (ignition) with bromine pentafluoride, NH4, NO3, and IF7.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep away from ... (incompatible materials to be indicated by the manufacturer).

After contact with skin, wash immediately with plenty of water. Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded. **Ventilation:**

Local Exhaust: 08V_EXH010 Mechanical(General): 00YN_Y Special: 00YN_N Other: 00YN_N Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. Eye Protection: Splash proof chemical safety goggles should be worn. Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 53.50 Boiling Point: 520 ?C Vapor Density(Air=1): Percent Volatile by Volume: Solubility in Water: Soluble Melting Point: 338 ?C (sublimes) Vapor Pressure: .97 mmHg at 30 ?C Specific Gravity (H2O=1): 1.53 Evaporation Rate (BuAc=1): Appearance and Odor: White, odorless crystals.

Section 10 - Reactivity Data

Stability: Stable
Conditions to Avoid: Heat and sources of ignition.
Avoid dusting.
Incompatibility (Materials to Avoid): Acids, Oxidizers, Alkalis, Cyanides, Metals, BrF3, Hazardous Decomposition Products: HCl, NH3,
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-rat LD50 1410 mg/kg Effects of Overexposure: Acute: See Section 2 Chronic: Mutation data cited. Not listed as a carcinogen by IARC, NTP or OSHA. Conditions Aggravated by Overexposure: Eye disorders Target Organs: Skin Eyes Primary Route(s) of Entry: Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: None

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name:

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

Name List:

Chemical Category:

CERCLA Section 103 RQ(lb.): RCRA Section 261.33:

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary ACGIH American Conference of Governmental Industrial Hygienists Chemical Services Abstract Number CAS Number Comprehensive Environmental Response, Compensation, and Liability Act CERCLA DOT U.S. Department of Transportation IARC International Agency of Research on Cancer Not Available N/A NTP National Toxicology Program Occupational Safety and Health Administration OSHA Permissible Exposure Limit PEL Parts per million ppm Resource Conservation and Recovery Act RCRA Superfund Amendments and Reauthorization Act SARA TLV Threshold Limit Value **TSCA** Toxic Substances Control Act