Ammonium Chloride

Section 1 Product Description

Product Name: Ammonium Chloride

Recommended Use: Science education applications

Synonyms: Sal Ammoniac, Ammoneric, Ammonium Muriate

Supplier: C2A Sales & Supplies (Barbados) Ltd.

#3 Canewood Road, Jackson, St. Michael, Barbados BB11005

1-246-426-1256

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



WARNING

Harmful if swallowed. Causes serious eye irritation. Toxic to aquatic life.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2A, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Oral Category 4

Section 3	Composition / Information on Ingredients		
Chemical Name	CAS#	<u>%</u>	
Ammonium Chloride	12125-02-9	100	

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-

contained breathing apparatus.

Fire and/or 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.

Hazardous Combustion Products: Nitrogen containing gases, Hydrogen chloride

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Ammonium Chloride Page 1 of 4

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling:

Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the

environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with material. Avoid creating and inhaling dust. Keep away from ... (incompatible materials to be indicated by the

manufacturer). After contact with skin, wash immediately with plenty of water.

Storage: Store in a dry area Material is hygroscopic (absorbs moisture).

Storage Code: Green - general chemical storage

Section 8 Protection Information

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Ammonium Chloride
 10 mg/m3 TWA
 20 mg/m3 STEL
 10 mg/m3
 20 mg/m3

 (fume)
 (fume)

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this

product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Follow the ACGIH recommended exposure limit of 10 mg/m3 for Particulates Not

Otherwise Classified (PNOC).

Eye Protection: Wear safety glasses with side shields and a Face shield

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9 Physical Data

Formula: NH4Cl Vapor Pressure: .97 mmHg at 30 °C

Molecular Weight: 53.50 Evaporation Rate (BuAc=1): No data available
Appearance: Powder Vapor Density (Air=1): No data available

Odor: No data available Specific Gravity: 1.53
Odor Threshold: No data available Solubility in Water: Soluble

pH: 4.5 - 5.5 at 50.00000 g/l at 20.0 °C (68.0 °F)

Melting Point: 338 C

Boiling Point: No data available

Decomposition Temperature: No data available

Decomposition Temperature: No data available

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to moisture

Incompatible Materials: Strong acids, Strong oxidizing agents, Caustics (bases)

Hazardous Decomposition Products: Hydrogen chloride, Nitrogen containing gases

Hazardous Polymerization: Will not occur

Ammonium Chloride Page 2 of 4

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): , Eye disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Ammonium Chloride12125-02-9Oral LD50 MouseNot determinedNot determined

1300 mg/kg Oral LD50 Rat 1650 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available12125-02-9Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Mutation data cited., Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: Severe ecological hazard. This product may be toxic to plants and/or wildlife.

Mobility: No data

Persistence: No data

Bioaccumulation: No data

Degradability: No data

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Ammonium Chloride 12125-02-9 24 HR LC50 LEPOMIS MACROCHIRUS 725 MG/L

96 HR LC50 CYPRINUS CARPIO 209 MG/L [STATIC]

24 HR LC50 DAPHNIA MAGNA 202 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

Ammonium Chloride Page 3 of 4

Not regulated for ground transport by US DOT.

Not regulated for air transport by IATA.

Section 15	Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ammonium Chloride	12125-02-9	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	No	No

California Prop 65:

No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

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.

Glossary ACGIH CAS CERCLA DOT IARC N/A	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer Not Available	NTP OSHA PEL ppm RCRA SARA TLV TSCA IDLH	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act Threshold Limit Value Toxic Substances Control Act Immediately dangerous to life and health
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Ammonium Chloride Page 4 of 4