Safety Data Sheet

Ammonium Chloride

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Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Ammonium Chloride Science education applications Sal Ammoniac, Ammoneric, Ammonium Muriate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

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
Ammonium Chloride

<u>CAS #</u> 12125-02-9 <u>%</u> 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Section 5	Firefighting Procedures
Skin Contact: Ingestion:	After contact with skin, wash immediately with plenty of water. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Inhalation: Eyes:	In case of accident by inhalation: remove casualty to fresh air and keep at rest. 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.

Section C	Chill on Look Dressdures
Hazardous Combustion Products:	Nitrogen containing gases, Hydrogen chloride
	chlorate or bromine trifluoride. Violent reaction (ignition) with bromine pentafluoride, NH4, NO3, and IF7.
Fire and/or Explosion Hazards:	breathing apparatus. Thermal decomposition produces highly toxic fumes. Explosive reaction with potassium
Extinguishing Media: Fire Fighting Methods and Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained

Section 6

Spill or Leak Procedures

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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. 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.

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

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

Storage: Storage Code:

Green - general chemical storage

Section 8	Protection	Information			
	AC	<u>GIH</u>	OSHA	PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	(STEL)	
Ammonium Chloride	10 mg/m3 TWA (fume)	20 mg/m3 STEL (fume)	10 mg/m3	20 mg/m3	
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 protectiv equipment depending upon conditions of use. Inspect gloves for chemical break-throug				

Gloves:

Section 9

Physical Data

No information available

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 Solubility in Water: Soluble Odor Threshold: No data available pH: 4.5 - 5.5 at 50.00000 g/l at 20.0 °C (68.0 °F) Log Pow (calculated): No data available Melting Point: 338 C Autoignition Temperature: No data available Boiling Point: 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

work

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization: No data available Stable under normal conditions. Exposure to moisture Strong acids, Strong oxidizing agents, Caustics (bases) Hydrogen chloride, Nitrogen containing gases Will not occur

Reactivity Data

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Section 11	
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation and ingestion. , Eye disorders No data available
Acute Toxicity: Chemical Name Ammonium Chloride	C 121

Toxicity Data

	CAS Number 12125-02-9	Oral LD50 Oral LD50 Mouse 1300 mg/kg Oral LD50 Rat 1650 mg/kg	Dermal LD50 Not determined
	CAS Number	IARC	NTP
	12125-02-9	Not listed	Not listed
No evidence of a l	mutagenic effect. teratogenic effect (birth	defect)	

No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. Target Organ Effects: See Section 2

CAS Number

12125-02-9

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

Section 12

Carcinogenicity: Chemical Name

No data available

Chronic Effects: Mutagenicity:

Teratogenicity:

Sensitization:

Reproductive:

Acute:

Chronic:

Overview: Mobility: Persistence: **Bioaccumulation:** Degradability: **Other Adverse Effects:** Severe ecological hazard. This product may be toxic to plants and/or wildlife. No data No data No data No data No data

Ecological Data

Chemical Name Ammonium Chloride

Eco Toxicity

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. Not Determined

Waste Disposal Code(s):

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for ground transport by US DOT. Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Regulatory Information

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

Ammonium Chloride

Inhalation LC50 Not determined

OSHA

Not listed

Additional Information

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