Ammonium Chloride, 1 M



Section 1

Product Description

Product Name: Recommended Use: Distributor:

Chemical Information:

Ammonium Chloride, 1 M Science education applications 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)

Section 2

Chemtrec:

Hazard Identification

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





Causes serious eye irritation. Harmful to aquatic life.

GHS Classification: Acute Toxicity - Oral Category 4

Section 3		Composition / Info	rmation on Ingre	dients	
Chemical Name			CAS #	<u>%</u>	
Water Ammonium Chloride			7732-18-5 12125-02-9	95 5	
Animonium Onionde			12125-02-5	5	
Section 4		First Ai	d Measures		
Eyes: Skin Contact: Ingestion:	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. After contact with skin, wash immediately with plenty of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.				
Section 5		Firefightin	g Procedures		
Fire Fighting Methods	s and Protection:	Firefighters should wear full breathing apparatus.	protective equipment and N	IOSH approved self-co	ntained

Fire and/or Explosion Hazards: Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products. Chlorine containing gases, Potassium Oxide

Section 6		Spill or Leak	Procedures			
Released or Spilled: eq new the em eq Us		sposure to the spilled material may be irritating or harmful. Follow personal protective puppent recommendations found in Section 8 of this SDS. Additional precautions may be beessary based on special circumstances created by the spill including; the material spilled, e quantity of the spill, the area in which the spill occurred. Also consider the expertise of inployees in the area responding to the spill. Persons not wearing appropriate protective puppent should be excluded from area of spill until clean-up has been completed. See an inert absorbent such as sand or vermiculite. Place in properly labeled closed intainer. Contain the discharged material. Do not flush spill to drain.				
Section 7		Handling a	nd Storage			
Handling: Storage: Storage Code:	 clothing/eye protection/face protection. Keep away from (incompatible materials to be indicated by the manufacturer). After contact with skin, wash immediately with plenty of water. Storage: Keep container tightly closed in a cool, well-ventilated place. 					
Section 8		Protection	nformation			
Chemical Name Ammonium Chlorid	de	<u>ACC</u> (TWA) 10 mg/m3 TWA (fume)	SIH (STEL) 20 mg/m3 STEL (fume)	<u>OSHA</u> (TWA) 10 mg/m3	<u>(STEL)</u> 20 mg/m3	
Control Parameter Engineering Meas Personal Protecti Respiratory Prote Eye Protection: Skin Protection:	sures: ive Equipment (PPE):	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Wear chemical splash goggles when handling this product. Have an eye wash station available. 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:						
Section 9	Section 9 Physical Data					
Formula: This product is a mixture. Molecular Weight: Appearance: Colorless Liquid Odor: No data available		Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 1.058 - 1.073				

Appearance: Colorless Liquid Odor: No data available Odor Threshold: No data available pH: 3-6 Melting Point: Estimated 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available

Reactivity Data

Viscosity: 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

Section 10

No data available Stable under normal conditions. Exposure to moisture Water-reactive materials, Strong acids, Strong oxidizing agents, Caustics (bases) Potassium Oxide, Chlorine containing gases Will not occur

Solubility in Water: Soluble

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Percent Volatile by Volume: No data available

			ty Data			
	Inhalation and inges , Eye disorders No data available	stion.				
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat	Dermal LD50	Inhalation LC50	
Ammonium Chloride		12125-02-9	90000 mg/kg Oral LD50 Rat 1650 mg/kg Oral LD50 Mouse 1300 mg/kg			
Carcinogenicity: Chemical Name No data available		CAS Number	IARC Not listed	NTP Not listed	OSHA Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2					
Chronic:			carcinogen by IARC, NT			
Section 12			cological Data			
Overview: Mobility: Persistence: Bioaccumulation:	This material is not expected to be harmful to the ecology. No data No data No data No data : No data					
Degradability: Other Adverse Effects:	No data					
	No data	7732-18-5 12125-02-9	Eco Toxicity No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS 24 HR LC50 DAPHNIA	MACROCHIRUS 725		
Other Adverse Effects: Chemical Name Water Ammonium Chloride	No data	7732-18-5 12125-02-9	No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS	MACROCHIRUS 725 MAGNA 202 MG/L		
Other Adverse Effects: Chemical Name Water Ammonium Chloride Section 13 Disposal Methods:	Disp	7732-18-5 12125-02-9 Disp pose in accordance fact a permitted was	No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS 24 HR LC50 DAPHNIA	MACROCHIRUS 725 MAGNA 202 MG/L ON ral, State and Local re	5 MG/L	
Other Adverse Effects: Chemical Name Water Ammonium Chloride Section 13 Disposal Methods: Waste Disposal Code(s	Disp	7732-18-5 12125-02-9 Dose in accordance tact a permitted was Determined	No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS 24 HR LC50 DAPHNIA DOSAL Informati with all applicable Fede te disposer (TSD) to as	MACROCHIRUS 725 MAGNA 202 MG/L ON ral, State and Local re sure compliance.	5 MG/L	
Other Adverse Effects: Chemical Name Water Ammonium Chloride Section 13 Disposal Methods:	Disp cont 5): Not Shipping Name: / hazardous substance	7732-18-5 12125-02-9 Dose in accordance act a permitted was Determined	No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS 24 HR LC50 DAPHNIA DOSAL Informati with all applicable Fede the disposer (TSD) to as Sport Informat Air - IATA Proper S	MACROCHIRUS 725 MAGNA 202 MG/L ON ral, State and Local re sure compliance. ion Shipping Name: ntally hazardous subs	GMG/L	
Other Adverse Effects: Chemical Name Water Ammonium Chloride Section 13 Disposal Methods: Waste Disposal Code(s Section 14 Ground - DOT Proper S UN3082 Environmentally	Disp cont 5): Not Shipping Name: / hazardous substance	7732-18-5 12125-02-9 Dose in accordance tact a permitted was Determined Trans es, liquid, n.o.s.	No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS 24 HR LC50 DAPHNIA DOSAI Informati with all applicable Fede te disposer (TSD) to as Sport Informat Air - IATA Proper S UN3082 Environme	MACROCHIRUS 725 MAGNA 202 MG/L ON ral, State and Local re sure compliance. ion Shipping Name: ntally hazardous subs m Chloride), 9, III	GMG/L	
Other Adverse Effects: Chemical Name Water Ammonium Chloride Section 13 Disposal Methods: Waste Disposal Code(s Section 14 Ground - DOT Proper S UN3082 Environmentally (Contains Ammonium Ch	Disp cont s): Not Shipping Name: / hazardous substance hloride), 9, III	7732-18-5 12125-02-9 Dose in accordance tact a permitted was Determined Trans es, liquid, n.o.s. Regu	No data available 96 HR LC50 CYPRINU 24 HR LC50 LEPOMIS 24 HR LC50 DAPHNIA DOSAL Informati with all applicable Fede the disposer (TSD) to as Sport Informat Air - IATA Proper S UN3082 Environme (Contains Ammoniu	MACROCHIRUS 725 MAGNA 202 MG/L ON ral, State and Local resure compliance. ion Shipping Name: ntally hazardous subs m Chloride), 9, III tion	G MG/L	

Ammonium Chloride	12125-02-9	No	5000 lb RQ	5000 lb final RQ; 2270 kg	No	No
				final RQ		

Section 16

Additional Information

Revised: 04/17/2015

Replaces: None

Printed: 04-22-2015

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