Ammonia Solution, Household



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Ammonia Solution, Household Science education applications Ammonia Aqueous, Aqua Ammonia, Ammonium Solution 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;



Section 2



Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 2, Acute Toxicity - Oral Category 4

Section 3	Composition / Information on Ingredients				
<u>Chemical Name</u> Water		<u>CAS #</u> 7732-18-5	<u>%</u> 90		
Ammonium Hydroxide		1336-21-6	10		
Section 4	First Aid Measures				
Emergency and First	Aid Procedures				
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.				
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.				
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.				

Section 5	_		

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection:	Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Dangerous fire hazard; emits irritating fumes and liquid can inflict burns. Ammonia hydroxide is non-combustible and non explosive, but ammonia vapors released from solution can form an explosive mixture in air.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

Section 6		Spill or Leak	Procedures		
Steps to Take in C Released or Spille	d: eq ne circ are spi ap are spi Pre to o gra Av	posure to the spilled mate uipment recommendations eds must be evaluated ba cumstances created by the ea in which the spill occurr ill. Never exceed any occu paratus and appropriate P ea. Persons not wearing a ill until clean-up has been event the spread of any sp do so. Wear complete and commendation of Section 8 anulated clay. Gather and oid creating dusts. Cover to ellect spillage.	s found in Section 8 of sed on information pro- e spill including; the m ed, and the expertise of pational exposure limit ersonal protection. (So popropriate protective e completed. will to minimize harm to proper personal prote at a minimum. Dike of store in a sealed conta	this SDS. Personal provided on this sheet an aterial spilled, the qua of employees in the ar its. Wear a self-contai ee Section 8.) Ventilate equipment should be e human health and the ective equipment follow with suitable absorben ainer pending a waste	otective equipment ad the special ntity of the spill, the ea responding to the ned breathing e the contaminated xcluded from area of e environment if safe wing the t material like disposal evaluation.
Section 7		Handling an	d Storage		
Handling: Storage: Storage Code:	when using this produ protection/face protect not breathe dust/vapo containers hazardous; Store locked up. Keep	ume/gas/mist/vapors/spray ct. Avoid release to the er tion. Keep away from (ii r. Do not get in eyes, on s ; use caution. o container tightly closed ir parate acids from bases; s	vironment. Wear prote ncompatible materials kin, or on clothing. Re a cool, well-ventilated	ective gloves/protective to be indicated by the etained residue may m d place.	e clothing/eye manufacturer). Do
Section 8		Protection Ir	nformation		
		ACGI	н	OSHA	
<u>Chemical Name</u> No data available		(TWA) N/A	(STEL) N/A	(TWA) N/A	(STEL) N/A
Control Parameters Engineering Meas Personal Protectiv Respiratory Protec Eye Protection: Skin Protection: Gloves:	ures: /e 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. Butyl rubber, Impervious rubber, Natural latex,, Natural rubber, Nitrile - Extra Thick (8 mm)			ons of use. eye wash station and other protective emical break-through y. Wash hands and g, and when leaving
Section 9		Physica	l Data		

Formula: NH4 * OH	Vapor Pressure: 115 mmHg at 20 °C for 10% solution
Molecular Weight: 35.06	Evaporation Rate (BuAc=1): N/A
Appearance: Colorless	Vapor Density (Air=1): 0.6 NH3
Odor: Strong Ammonia	Specific Gravity: 0.9
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: 100 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: NH3 gas LEL 16% UEL 25%	Percent Volatile by Volume: 100%
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Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization: No data available Stable under normal conditions. None known. Water-reactive materials, Copper, Iron Salts, Zinc Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation. Respiratory disorders No data available					
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50	
Ammonium Hydroxide		1336-21-6	Oral LD50 Rat = 350 mg/kg		INHALATION LC50 Mouse 4500 ppm INHALATION LC50 Mouse 21430 ppm INHALATION LC50 Rat 9500 ppm	
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: Chronic:	No evidence of a ter No evidence of a ser No evidence of nega See Section 2	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 Mutation data cited., Not listed as a carcinogen by IARC, NTP or OSHA.				
Section 12			cological Data	1		
Overview: Mobility: Persistence: Bioaccumulation:	Extreme ecc waterways. No data No data No data No data	ological hazard. Thi	s product may be highly	/ toxic to plants and/or	wildlife. Keep out of	
Degradability: Other Adverse Effects	No data S: No data					
Chemical Name Water Ammonium Hydroxide		CAS Number 7732-18-5 1336-21-6	Eco Toxicity No data available 96 HR LC50 PIMEPHA 48 HR EC50 DAPHNIA 48 HR EC50 WATER F	A PULEX 0.66 MG/L	MG/L	
Section 13		Dis	oosal Informati	ion		
Disposal Methods: Waste Disposal Code	cont		with all applicable Fede ste disposer (TSD) to as		egulations. Always	
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Section 14

Transport Information

Additional Information

Ground - DOT Proper Shipping Name:

*** Consumer commodity/ORM-D for 500 ml and 4 L bottles. ***

Air - IATA Proper Shipping Name: 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 Hydroxide	1336-21-6	No	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	No	No

Section 16

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Replaces: 08/19/2015

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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

Ciccoury			
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