Copper (II) Sulfate, 5%

CAROLINA®

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Copper (II) Sulfate, 5% Science education applications Cupric sulfate anhydrous; Cupric sulfate; Copper monosulfate 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;





Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life.

GHS Classification:

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

Section 3	Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>	
Water	7732-18-5	92.17	
Copper (II) sulfate, anhydrate	7758-98-7	7.83	

Section 4

First Aid Measures

	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Sulfur Oxides, Metal Oxides, , In case of fire and/or explosion do not breathe fumes.

Section 6		

Released or Spilled:

Spill or Leak Procedures

Steps to Take in Case Material Is 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. Isolate area. Keep unnecessary personnel away.

> Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Collect spillage.

> > Dn

Section 7

Handling and Storage

Handling:

Storage:

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. Suitable for any general chemical storage. Storage Code: Green - general chemical storage

Section 8

Protection Information

	ACGI	<u> </u>	<u>OSH</u>	A PEL
<u>Chemical Name</u>	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Copper (II) sulfate, anhydrate	1 mg/m3 TWA (dust	N/A	N/A	N/A
	and mist, as Cu)			
Control Parameters				
Engineering Measures:	Local exhaust ventilation	or other engineerin	ng controls are normally	required when
0	handling or using this pro			
	should be sufficient to co			
Personal Protective Equipment (PPE):	Lab coat, apron, eye was	h, safety shower.		
Respiratory Protection:	No respiratory protection	required under nor	mal conditions of use.	
Eve Protection:	Wear chemical splash go	agles when handlir	ng this product. Have an	n eye wash station
•	available.	00	0	2
Skin Protection:	Avoid skin contact by we	aring chemically res	sistant gloves, an apron	and other protective
	equipment depending up			
	and replace at regular int			
	other exposed areas with mild soap and water before eating, drinking, and when lea			
	work.		3, 1	3,
Gloves:	No information available			

Section 9

Physical Data

Formula: This product is a mixture. Molecular Weight: Mixture Appearance: Colorless Liquid Odor: None Odor Threshold: No data available pH: 3.5 - 4.5 Melting Point: >= 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: No data available Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

Section 10

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

No data available Stable under normal conditions. None known. Water-reactive materials, Metals (powdered), Alkali and Alkaline Metals In case of fire and/or explosion do not breathe fumes., Metal Oxides, , Sulfur Oxides Will not occur

Reactivity Data

Section 11

Toxicity Data

Routes of EntryInhalation, ingestion, eye or skin contact.Symptoms (Acute):No data availableDelayed Effects:No data available

Acute Toxicity: Chemical Name Water Copper (II) Sulfate, 5%		CAS Number 7732-18-5 7758-98-7	Oral LD5 Oral LD50 Ra 90000 mg/kg Oral LD50 Ra 481 mg/kg	at Not deter	al LD50 rmined I	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name No data available		CAS Number	IARC Not listed	N Not listed	TP	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a se	eratogenic effect (bir ensitization effect. jative reproductive e e				
Section 12			cological C	Data		
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 S: No data					
Chemical Name Water Copper (II) sulfate, anhyo						G/L
Section 13 Disposal Information						
Disposal Methods: Waste Disposal Code(s	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					ations. Always
Section 14		Tran	sport Infor	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not regulated for transport by US DOT.Not regulated for air transport by IATA.						
Section 15		Regu	latory Info	rmation		
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Numbe	§ 313 Nam r	ie § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Copper (II) sulfate, anhyo	drate 7758-98	3-7 No	10 lb RQ	10 lb final RQ; 4.54 kg final RQ	No	No

Section 16

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