# Simulated Antigen

# CAR(!)LINA" www.carolina.co

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#### Section 1

## **Product Description**

**Product Name: Recommended Use: Distributor:** 

**Chemical Information:** 

Simulated Antigen 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; Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:** 

**Other Safety Precautions:** 

May cause eye irritation. May cause gastrointestinal discomfort. May cause irritation to respiratory tract. May cause irritation to skin.

#### Section 3

#### Composition / Information on Ingredients

Chemical Name	<u>CAS #</u>
Water	7732-18-5
Copper (II) Sulfate, 5-Hydrate	7758-99-8
Contains <1% Copper (II) sulfate pentahydrate {EMSFORM_03	SDS_COMP_NOTE}

#### Section 4

Eyes:

#### First Aid Measures

<b>Emergency and Fi</b>	rst Aid Procedures
Inhalation:	In case of accident I

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Skin Contact: After contact with skin, wash immediately with plenty of water. Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 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:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Sulfur Oxides, Metal Oxides,

#### Section 6

#### Spill or Leak Procedures

Steps to Take in Case Material Is **Released or Spilled:** 

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Remove soiled clothing and launder before reuse. Avoid the generation of dusts during clean-up. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Do not flush spill to drain.

## **Section 7**

## Handling and Storage

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

#### **Section 8**

# **Protection Information**

Chemical Name Copper (II) Sulfate, 5-Hydrate	ACGII (TWA) 1 mg/m3 TWA (dust and mist, as Cu)	<u>H</u> (STEL) N/A	(TWA) N/A	<u>PEL</u> (STEL) N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when				
	handling or using this product to avoid overexposure. Good general room ventilation				
Personal Protective Equipment (PPE):	should be sufficient to control airborne contaminates to safe levels. Lab coat, apron, eye wash, safety shower.				
Respiratory Protection:	No respiratory protection required under normal conditions of use.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
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:	Nitrile				

## Section 9

#### Physical Data

Formula: This product is a mixture. Molecular Weight: Appearance: Colorless Liquid Odor: None Odor Threshold: No data available pH: No data available Melting Point: Estimated 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: Soluble 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 Data**

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, Strong oxidizing agents Sulfur Oxides, Metal Oxides, Will not occur

# Section 11

#### **Toxicity Data**

Symptoms (Acute): Delayed Effects:	No data available No data available					
Acute Toxicity: Chemical Name Water Copper (II) Sulfate, 5-Hyd	drate	<b>CAS Number</b> 7732-18-5 7758-99-8	<b>Oral LD50</b> Oral LD50 Rat 90000 mg/kg Oral LD50 Rat = 300 mg/kg	Dermal LD50 Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50	
Carcinogenicity: Chemical Name No data available		CAS Number	IARC	NTP	OSHA	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects:	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.					
Acute: Chronic:	No data available No data available					
Section 12		Ecolog	jical Data			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. Severe ecological hazard. This product may be toxic to plants and/or wildlife. Keep out of waterways. No data Dissolved into water, Adsorbs to soil., Chemically Transformed No data No data <b>ts:</b> No data					
<b>Chemical Name</b> Water Copper (II) Sulfate, 5-Hy	drate	CAS Number 7732-18-5 7758-99-8	Eco Toxicity No data available 96 HR LC50 PIMEPHA 96 HR LC50 ONCORH [STATIC] 96 HR LC50 ONCORH [FLOW-THROUGH]	YNCHUS MYKISS 0.09	9 - 0.19 MG/L 478 - 0.165 MG/L	

## Section 13

#### **Disposal Information**

STATIC]

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

96 HR LC50 LEPOMIS MACROCHIRUS 0.96 - 1.8 MG/L [STATIC] 96 HR LC50 LEPOMIS MACROCHIRUS 0.66 - 1.15 MG/L [SEMI-

48 HR EC50 DAPHNIA MAGNA 0.147 - 0.227 MG/L [STATIC]

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
Copper (II) Sulfate, 5-hydrate	7758-99-8	No	No	No	No	No
California Prop 65:	No California Proposition 65 ingredients					
Section 16	Additional Information					
Revised: 08/21/2018	Replac	ces: 08/21/2018		Printed: 09	)-19-2023	

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