Quinine Sulfate, Dihydrate



Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Quinine Sulfate, Dihydrate Science education applications 6'-Methoxycinchonan-9-ol Sulfate 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



Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) -Single Exposure Category 3

Section 3

Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>	
Quinine Sulfate, Dihydrate	6119-70-6	100	
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Section 4

First Aid Measures

Emergency and Fir	st 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. 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, do not induce vomiting: seek medical advice immediately and show this container or label.		
Section 5	Firefighting Procedures		

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
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:	Carbon dioxide, Carbon monoxide, Nitrogen containing gases, Sulfur containing gases

Section 6

Spill or Leak Procedures

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. Avoid the generation of dusts during clean-up. 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.

Section 7

Handling and Storage

 Handling:
 Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Avoid direct sunlight and heat.

 Storage:
 Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from light. Material is photodegradable.

 Storage Code:
 Green - general chemical storage

Section 8	Protection	nformation		
	ACGIH		OSHA PEL	
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
Quinine Sulfate, Dihydrate	N/A	N/A	N/A	N/A
Control Parameters				
Engineering Measures:	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.			
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are			
	above the applicable e	xposure limits, use NIC	SH/MSHA approved i	respiratory protection.
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:	No information availab	le		

Physical Data

Formula: (C20H24N2O2)2 H2SO4 2H2O Molecular Weight: 782.97 Appearance: White to off-white Crystalline Solid Odor: None Odor Threshold: No data available pH: 8.8 (saturated soln.) Melting Point: 177 C Boiling Point: No data available 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: Practically Insoluble 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

Section 9

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

Reactivity Data

Mildly reactive - See below
Stable under normal conditions.
Exposure to light.
Strong oxidizing agents
Sulfur containing gases, Nitrogen containing gases, Carbon dioxide, Carbon monoxide
Will not occur

Section 11

Toxicity Data

Symptoms (Acute): Delayed Effects:	Tinnitus, Visual Symp No data available	toms, Pulmonary Ed	ema, Nausea, Von	niting, Sensitivity to Lig	ht
Acute Toxicity: Chemical Name Quinine Sulfate, Dihydra	ate	CAS Number 6119-70-6	Oral LD50 Not determined		
Carcinogenicity: Chemical Name Quinine Sulfate, Dihydra	ate	CAS Number 6119-70-6	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a se No evidence of neg	ratogenic effect (birth ensitization effect. ative reproductive eff espiratory system, E	ects.		
Section 12		Ec	ological Da	ata	
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	al is not expected to t	be harmful to the e	cology.	
Chemical Name Quinine Sulfate, Dihydra	ate	CAS Number B 6119-70-6	Eco Toxicity		
Section 13		Disp	osal Inform	ation	
Disposal Methods: Waste Disposal Code(con			ederal, State and Loca o assure compliance.	al regulations. Always
Section 14		Trans	sport Inform	nation	
Ground - DOT Proper Not regulated for transp				ber Shipping Name: or air transport by IATA.	
Section 15		Regul	atory Inform	nation	
TSCA Status:				uct is not listed on the T for research and develo	
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ § 30	2 TPQ CAA 112(2) TQ

Quinine Sulfate, Dihydrate

California Prop 65:

Section 16

6119-70-6

No

No

No

No California Proposition 65 ingredients

No

Routes of Entry

Ingestion.

No

Additional Information

Revised: 08/21/2018

Replaces: 06/15/2018

Printed: 08-25-2018

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 CAS CERCLA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act	NTP OSHA PEL ppm RCRA	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million 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 IDLH	Toxic Substances Control Act Immediately dangerous to life and health