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Infosafe No™

Issue Date : January 2018

RE-ISSUED by CHEMSUPP

Product Name : QUININE SULFATE

1CHA7

	Classified as hazardous
1. Identification	
GHS Product	QUININE SULFATE
Identifier	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone/Fax	Tel: (08) 8440-2000
Number	Fax: (08) 8440-2001
Recommended use	Antimalarial medications, analgesic, antipyretic, anticholinergic, antihypertensive, and hypoglycemic
of the chemical and restrictions on use	agent, also used to treat nocturnal leg cramps, arthritis and patients with myotonia; flavour in carbonated beverages; used in photochemistry as a fluorescence standard; used as the chiral moiety for the ligands
	used in Sharpless asymmetric dihydroxylation; Potassium channel blocker and laboratory reagent.
Other Names	Name Product Code
	QUININE SULFATE LR QL000
Additional	Quinine is listed as a Schedule 4 poison for human therapeutic use except when the maximum
Information	recommended daily dose is 50 mg or less of quinine in the 'Standard for the Uniform Scheduling of
	Drugs and Poisons No. 22', Commonwealth Department of Health and Ageing, Commonwealth of
	Australia, Canberra 2007.
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000
	Business hours: 8:30am to 5:00pm, Monday to Friday.
	Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user
	must ascertain the suitability of the product before use or application intended purpose. Preliminary
	testing of the product before use or application is recommended. Any reliance or purported reliance
	upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of
	this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by
	any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices
	Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods
	or payment of the cost of replacing the goods or acquiring equivalent goods.
2. Hazard Identif	
GHS classification	Acute Toxicity - Dermal: Category 2
of the	Eye Damage/Irritation: Category 2A
substance/mixture	Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation)
Signal Word (s)	WARNING
Hazard Statement	H314 Causes severe skin burns and eye damage.
(s)	H319 Causes serious eye irritation.
.,	H335 May cause respiratory irritation.
Pictogram (s)	Exclamation mark
	A
Precautionary	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
statement –	P264 Wash thoroughly after handling.
Prevention	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
statement –	P332+P313 If skin irritation occurs: Get medical advice/attention.
Response	P362 Take off contaminated clothing and wash before reuse.
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
	breathing.
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
	P337+P313 If eye irritation persists: Get medical advice/attention.
Print Date: 8/03/2018	CS: 1.7.2

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Product Name :	QUININE SUL	.FATE				
		С	lassified as haz	ardous		
Precautionary	P403+P233 Sto	re in a well-ve	entilated place. Ke	ep container tight	y closed.	
statement – Storage Precautionary			ntainer to an appr	oved waste dispos	al plant.	
statement – Disposal						
3. Composition/i	nformation of	n ingredier	nts			
Chemical Characterization	Solid					
Information on					, high-boiling paraffin	
Composition	is filtered, shake On cooling, quir			he latter neutralise	d while still hot with s	odium carbonate.
Ingredients	<u>Name</u>		CAS	Proportion	Hazard Symbol	<u>Risk Phrase</u>
	Quinine sulfate	dihydrate	6119-70-6	100 %		
4. First-aid meas				en e la colta income a di e de		institut if and
Inhalation				consult a physicia	ly. Apply artificial resp n.	biration if not
Ingestion			water immediately . Seek immediate		aces of product have	been removed.
Skin	Wash affected a	area thoroughl	ly with copious ar	nounts of running	water. Remove contar	ninated clothing
Eye contact				n if irritation develo bious amounts of w	ops or persists. vater for approximately	/ 15 minutes
	holding eyelid(s) open. Take c	care not to rinse o		r into the non-affected	
First Aid Facilities	irritation occurs Maintain eyewa		a drench facilitie	s in work area.		
Advice to Doctor	Treat symptoma	atically based of	on judgement of	doctor and individu	al reactions of the par	tient.
Other Information		For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.			aland 0800 764	
5. Fire-fighting m						
Hazards from Combustion	and carbon diox		es, including carb	on monoxide, nitro	gen oxides (NOx), sul	fur oxides (SOx)
Products				,		
Specific Methods Specific hazards	Small fire: Use dry chemical, CO2, water spray or foam. May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous					
arising from the chemical	and/or corrosive		uny. Runon may	politie waterways	. The may produce in	tating, poisonous
Decomposition Temp.	> 235 °C					
6. Accidental rele						
Personal Precautions	Avoid substance enclosed rooms		id generation of c	lusts: do not inhale	e dusts. Ensure supply	/ of fresh air in
Personal Protection			ified for normal o	perations (see Sec	ction 8)	
Clean-up Methods - Small Spillages	Sweep up (avoi clearly labelled	d generating d container for c	dust) and using cl disposal in accord	ean non-sparking lance with local reg	tools transfer to a clea gulations.	ın, suitable,
7. Handling and	storage					
Precautions for Safe Handling	repeated expos good ventilation If you feel unwe	ure. Minimize at the workpla II, seek medic	dust generation a ace. In case of in al attention and s	and accumulation. sufficient ventilatio how the label whe	Keep container tightly n, wear suitable respi n possible. Wash thor	closed. Ensure ratory equipment.
Conditions for safe storage, including any	Store in tightly of	closed, light-re	sistant container		clothing before reuse. ell-ventilated area, aw b light.	ay from
incompatabilities						

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Pro

Product Name : QUININE SULFATE Storage Store at a temperature less than 40 °C, preferably between 15-30 °C. Temperatures Store at a temperature less than 40 °C, preferably between 15-30 °C. Between the temperatures No exposure standards have been established for this product by Safe Work Australia, however, the Information Thormation TWA exposure standards have been established for this product by Safe Work Australia, however, the Information Information In industrial situations maintain the concentrations values below the TWA. This may be achieved by engineering controls process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Respiratory Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory protection program including selection, fit testing, training, maintenance and inspection. Eve Protection The use of a face shield, chemical gogles or safety glasses with side shield protection as appropriate. Must comply with AS 2161, Occupational protection glasmed entry into unknetance. Personal Protective Final choice of personal protective equipment will depend on individual circumstances and/or according to protective aquipment will depend on individual circumstances. Body Protection Clean clothing or protection Against Hazardous Chemicals. Hand protective Solid Appearance	Infosafe No™	1CHA7	Issue Date : January 2018	RE-ISSUED by CHEMSUPP	
Storage Temperatures Store at a temperature less than 40 °C, preferably between 15-30 °C. 8. Exposure controls/personal protection 0 70 Other Exposure Information No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m3. This may be achieved by engineering controls process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Respiratory Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of the emergency or planned entry into unknown concentrations a positive pressure, full-facepice SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, the use of a lace shield, chemical goggles or satety glasses with side shield protection, sea and maintenance. Personal Protective Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. Body Protective Final choice of personal protective equipment will depend on individual circumstances and a date and clothing or protective forekcion Against Hazardous Chemicals. Hygiene Measures Solid Aways wash hands before smaking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.	Product Name :	QUININE SU	JLFATE		
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Eye Protection The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand Protection Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Personal Protective Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. Body Protection Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Hygiene Measures Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. 9. Physical and chemical properties Form Form Solid Appearance White or almost white fine, needle-like, white crystals which are usually lusterless and make a light and readily compressible mass, or crystalline powder. Becomes brownish on exposure to light. Odour Odourless. Decomposition > 235 °C Temperature Metting Point Boiling Point Decomposes Solubility in Organic Sparingly soluble in water, sparingly soluble in boiling water (1 g/ 810 mL water (20 °C)). Solubulity in Organic Sparingly soluble in d					
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Personal Protective Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. Body Protection Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Hygiene Measures Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. 9. Physical and chemical properties Form Solid Appearance White or almost white fine, needle-like, white crystals which are usually lusterless and make a light and readily compressible mass, or crystalline powder. Becomes brownish on exposure to light. Odour Odourless. Decomposition > 235 °C rementure Solid light soluble in water, sparingly soluble in boiling water (1 g/ 810 mL water (20 °C)). Solubility in Water Slightly soluble in diethyl ether. PH 5.7 - 6.6 (1 % suspension in water) Volatile Component 0 %vol @ 21 °C Finamability Combustible. Explosion Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Molecular Weight 782.95 Other Information Taste: A persistent, very bi	Hand Protection		on should comply with AS 2161, Occupational p	protective gloves - Selection, use and	
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Specific Rotation: -237° to -245°.	-		stent, verv bitter taste		
10. Stability and reactivity					
	10. Stability and	reactivity			

TO. Stability and reactivity			
Chemical Stability	Stable in sealed containers, under normal temperatures and pressures. Light sensitive - darkens and may decompose when exposed to light. Loses water with heat.		
Conditions to Avoid	Heat, dust generation, exposure to light and incompatible materials.		
Incompatible Materials	Acetates, ammonia, alkalies, benzoates, citrates, iodides, iodines, light, limewater, oxidizing agents, salicylates, tannic acid and tartrates.		
Hazardous Decomposition Products	Irritating and highly toxic gases, including carbon monoxide, nitrogen oxides (NOx), sulfur oxides (SOx) and carbon dioxide.		

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Infosafe No™

Issue Date : January 2018

RE-ISSUED by CHEMSUPP

Product Name : QUININE SULFATE

	Classified as hazardous
Possibility of	Reactive with strong oxidizers.
hazardous reactions	
Hazardous	Will not occur.
Polymerization	

1CHA7

11. Toxicological Information

TT. TOXICOlogical	
Ingestion	May be harmful if swallowed. Cinchonism may occur following ingestion. Adverse signs and symptoms at therapeutic doses may include headaches, abdominal pain, nausea, vomiting, diarrhoea, tinnitus and reversible hearing loss. In higher doses, visual changes (including temporary blindness) may occur and more severe toxicity such as cardiotoxicity may be seen with still higher doses. Skin rashes and haemolytic uremic syndrome may occur in sensitive individuals even at therapeutic doses. Causes gastrointestinal irritation with nausea, vomiting and diarrhoea. Signs and symptoms may include headache, deafness, vomiting, abdominal pain, tachycardia, ataxia, paresthesias, blindness, prolonged PR, QRS and QT intervals, dysrhythmias, hypotension, syncope, respiratory arrest, coma, heart failure and death. Cardiovascular effects typically occur within 8 hours of ingestion. Cardiotoxicity which may be delayed until 25 hours after ingestion has been reported. ECG changes closely reflect relative tissue levels. Decreased visual acuity and visual field constriction may progress to sudden blindness with non-reactive, dilated pupils. Fixed dilated pupils are seen frequently in children following ingestion. Tinnitus (ringing in the ears) and concentration-dependent hearing impairment are frequent. Cardiotoxicity typically appears within 8 hours following ingestion of quinine. Respiratory depression may occur. CNS depression and seizures may occur. Central nervous system toxicity seems to be more marked in children than adults; children frequently present with seizures following an overdose. May cause systemic toxic effects on the heart, liver, and kidneys. Exposure may cause anaemia and other blood abnormalities. Immune-mediated pancytopenia and coagulopathy may occur at therapeutic doses of quinine. This may be associated with renal failure and the haemolytic uremic syndrome. Thrombocytopenia may result. Haemolytic anaemia may occur in patients with G6PD deficiency. Acute interstitial nephritis has been reported. May cause acut
Inhalation Skin	greater than 4 g. Harmful if inhaled. May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. Can be route for absorption in the body. May cause effects similar to those described for ingestion. May cause skin irritation. May have some absorption. May be harmful if absorbed through the skin. May
Eve	cause an allergic reaction in certain individuals. May cause eye irritation, redness and pain.
Carcinogenicity	Not listed in the IARC Monographs.
Reproductive Toxicity	Adverse reproductive effects have been reported in animals. Anhydrous quinine sulfate shows reproductive effects in rats and mutagenic effects in bacteria. (RTECS) Quinine passes through the placenta. Use of quinine as an abortifacient can produce poisoning in the foetus with frequent infant deafness (Dannenberg et al., 1983). Numerous malformations and foetal anomalies have been reported. Other suspected teratogenic effects of quinine include blindness and physical malformation. It passes into breast milk (Ellenhorn, M.J. and D.G. Barceloux. Medical Toxicology - Diagnosis and Treatment of Human Poisoning. New York, NY: Elsevier Science Publishing Co., Inc. 1988., p. 392). It has been reported to decrease male reproductive capacity.
Chronic Effects Mutagenicity	Repeated or prolonged exposure to the substance can produce damage to the eyes, and liver, blood effects, stomach pains, vomiting, and diarrhoea. May produce central nervous system depression which may lead to cardiac and respiratory dysfunction. Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. Quinine: DNA damage system-mammal (species unspecified): lym 100 mmol/L ('Dangerous Properties

12. Ecological Information

10 Diseased as a side as time.		
Environmental Protection	Do not allow to enter waters, waste water, or soil!	
	America.	
Environmental Fate	Quinine is chief alkaloid of cinchona, the bark of cinchona tree indigenous to certain regions of South	

13. Disposal considerations

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Issue Date : January 2018

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chem-supply

Infosafe No™

RE-ISSUED by CHEMSUPP

Product Name : QUININE SULFATE

1CHA7

Classified as hazardous				
Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.			
14. Transport inf	ormation			
Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.			
15. Regulatory ir	nformation			
Regulatory Information Poisons Schedule	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Not Scheduled			
16. Other Inform	ation			
Literature References	 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. 			
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.			
Empirical Formula 8 Structural Formula	k (C20H24N2O2)•H2SO4•2H2O			
	End Of MSDS			

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