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Infosafe No™ 1CHFJ

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Issue Date : January 2022 RE-ISSUED by CHEMSUPP

Product Name FEHLING'S SOLUTION No.1

Classified as hazardous

Section 1 - Identif	cation					
Product Identifier	FEHLING'S SOLUTION No.1					
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)					
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia					
Telephone/Fax Number	Tel: (08) 8440-2000					
Emergency Phone Number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)					
E-mail Address	www.chemsupply.com.au					
Recommended use of the chemical and restrictions on use	Used with Fehling's Solution No. 2 as a test for sugars, aldehydes, etc. This product supplied by Chem-Supply is for education/research use only.					
Other Names	Name Product Code					
	Fehling's Solution A Part 1 of Potassium Cupri Tartrate solution FEHLING'S SOLUTION No.1 FL019 Fehling's solution, solution A Cupric sulfate Solution					
Other Information	ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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.					

# Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Hazard Statement (s)	H410 Very toxic to aquatic life with long lasting effects.
Pictogram (s)	Environment
	₹ <u>¥</u>
Precautionary Statement – Prevention	P273 Avoid release to the environment.
Precautionary Statement – Response	P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

Section 3 - Composition and Information on Ingredients



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Ingredients	Name CAS	Proportion				
	Water to make a total of 7732-18-5 100%	92.2-95 %				
	Copper (II) sulfate 7758-99-8 pentahydrate	5-7.8 %				
Section 4 - First A	id Measures					
Inhalation	Remove victim to fresh air. No specific measures					
Ingestion	Rinse mouth thoroughly with water immediately, re product have been removed. DO NOT INDUCE VOMITING effects persist.					
Skin	Wash with plenty of soap and water. Seek medical	advice if effects persist.				
Eye	Immediately irrigate with copious quantity of wat Eyelids to be held open. Seek medical advice if Maintain eyewash fountain and safety shower in wo	effects persist.				
First Aid Facilities Advice to Doctor	Treat symptomatically based on judgement of docto					
	the patient.					
Other Information	For advice, contact a Poisons Information Centre New Zealand 0800 764 766) or a doctor.	(Phone eg Australia 13 1126;				
Section 5 - Firefig	hting Measures					
Specific Methods	This product contains a substantial proportion of restrictions on the type of extinguishing media w					
Specific Hazards Arising from the Chemical	Runoff may pollute waterways.					
Hazchem Code	• 3Z					
Precautions in connection with Fire	Wear SCBA and chemical splash suit. SCBA and stru may provide limited protection.	ctural firefighter's uniform				
Section 6 - Accide	ntal Release Measures					
<b>Personal Protection</b>	Wear protective clothing specified for normal ope					
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.					
Environmental Precautions	Prevent from entering into drains, ditches, river	s or the sea.				
Section 7 - Handli	ing and Storage					
Precautions for Safe Handling	Avoid generating and inhaling mist.					
Conditions for safe storage, including any incompatibilities	Store in cool place and out of direct sunlight. area. Keep containers closed at all times.	Store in well ventilated				
Section 8 - Exposu	are Controls and Personal Protection					
Other Exposure Information	A time weighted average (TWA) has been establishe (as Cu) (Safe Work Australia) of 1 mg/m <sup>3</sup> . The exp average airborne concentration of a particular su	osure value at the TWA is the bstance when calculated over				
Respiratory Protection	a normal 8 hour working day for a 5 day working w Usually not required. Where ventilation is not adequate, respiratory pr Avoid breathing dust, vapours or mists. Respirato with AS 1716 - Respiratory Protective Devices and with AS 1715 - Selection, Use and Maintenance of Devices. Filter capacity and respirator type depe event of emergency or planned entry into unknown	otection may be required. ry protection should comply be selected in accordance Respiratory Protective nds on exposure levels. In				
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ChemSupply	Material Safety Data Sheet					
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Eye and Face Protection	pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. 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					
Hand Protection	be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves -					
Personal Protective Equipment	Selection, use and maintenance. Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					
Body Protection Hygiene Measures	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.					
Section 9 - Physic	cal and Chemical Properties					
Form	Liquid					
Appearance	Clear bright blue solution.					
<b>Boiling Point</b>	>100 °C					
Specific Gravity	1.04					
Flammability	Non combustible material.					
Section 10 - Stabi	lity and Reactivity					
Chemical Stability	Stable under ordinary conditions of use and storage.					
Hazardous Polymerization	Will not occur.					
Section 11 - Toxic	cological Information					
Ingestion	May cause repeated vomiting, burning pain in the mouth, throat, esophagus and stomach, diarrhea, nausea, abdominal pain and ulceration of the gastrintestinal tract. If vomiting does not occur immediately, systemic coppoisoning may occur. Symptoms may include capillary damage, headache, cold sweat, weak puls, kidney and liver damage, central nervous excitation follow by depression, jaundice, convulsions, blood effects, paralysis and coma. Dea may occur from shock or renal failure.					
Inhalation	Mist may cause irritation of the nasal passages, throat and respiratory trac Symptoms may include coughing, sore throat and shortness of breath. May resu in ulceration and perforation of the respiratory tract.					

Irritating to skin. May cause redness and itching. Prolonged or repeated Skin exposure may cause allergic reactions in certain sensitive individuals. Eye May be an eye irritant.

Carcinogenicity No evidence of carcinogenic properties.

No evidence of mutagenic effects. Mutagenicity

**Chronic Effects** Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis.

**Section 12 - Ecological Information** 

Information on	Severe marine pollutant - IMDG Code.
Ecological Effects	Toxic to aquatic life.
5	96-hour LC50 (fish): <1 mg/L (Cu).
	96-hour LC50 (algae): <1 mg/L (Cu).



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		Classifi	ed as hazardous		
Environmental	Contain sp	illage.			

Environmental	
Protection	When released into the soil, this material is not expected to biodegrade and
	may leach into ground water. When released into the water, this material is
	not expected to biodegrade or evaporate significantly. This material is
	expected to bioaccumulate significantly.
Acute Toxicity - Fish	The following applies to copper compounds: biological effects: toxic for
ficure formerey finn	aquatic organisms; copper ions toxic for fish at concentrations below 1mg/1.
	Fish (C. auratus): toxic from 0.01 mg/l
Acute Toxicity -	The following applies to copper compounds: biological effects: toxic for
Other Organisms	aquatic organisms; copper ions toxic for other organisms at concentrations
Other Organisms	
	below 1mg/l
	Mussels: 0.55 mg/l lethal in 12 hr.
	Oysters: 0.1 mg/l toxic.
	Oysters. U.I mg/I COATC.

#### Section 13 - Disposal Considerations

Disposal	Whatever cannot be saved for recovery or recycling should be disposed of
Considerations	according to relevant local, state and federal government regulations.

## **Section 14 - Transport Information**

Transport Information	Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or (b) IBCs.					
	Dangerous goods of Class 9 (Miscellaneous Dangerous Goods) are incompatible in a placard load with any of the following:					
	Class 1, Class 5, if the Class 9 dangerous goods are fire risk substances.					
ADG UN Number	3082					
ADG Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Contains Copper Sulfate)					
ADG Transport	9					
Hazard Class						
ADG Packing Group	III					
Hazchem Code	•3Z					
EPG Number	9C1					
IERG Number	47					

# Section 15 - Regulatory Information

RegulatoryCopper sulphate - Listed in the Australian Inventory of Chemical SubstancesInformation(AICS).Poisons ScheduleS5

## Section 16 - Any Other Relevant Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of
	Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
	Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
	Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
	Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
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
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Empirical Formula & Structural Formula	CuSO4 + aq				
<b>Technical Data</b>	Mix with ar	n equal part of F	ehling's Sol	ution No. 2	BP immediately before use.
	End Of N	ISDS			
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