

MSDS Fehlings Solution No.1 2350



Part 1 – Name of product and supplier

Company Name :- ECP LTD

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2. HAZARDS IDENTIFICATION

Hazard Classification

Australia:

Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

HSNO Classification:

6.3B - Substance that is mildly irritating to the skin.

6.5B - Substance that is a contact sensitiser.

6.9B - Substance that is harmful to human target organs or systems.

9.1B - Substance that is ecotoxic in the aquatic environment.

Risk Phrase(s)

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s)

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Copper II sulphate pentahydrate	7758-99-8	0-<10 %
	Sulphuric acid	7664-93-9	0-<0.1 %
	Ingredients determined not to be hazardous.		Balance

4. FIRST AID MEASURES

Inhalation	Remove affected person from exposure. Allow to assume most comfortable position and keep warm. Keep at rest until fully recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Seek medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation develops seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes. Seek medical attention.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use appropriate fire extinguisher for surrounding environment.
Specific Hazards	Non-combustible substance
Hazchem Code	2X
Precautions in connection with Fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to avoid exposure. Increase ventilation. If possible contain the spill. Place inert non-combustible absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of
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waste according to applicable local and national regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Use in a well ventilated area. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Wear appropriate protection. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe Storage	Store in a cool, dry well-ventilated area. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	<p>No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, exposure standards for ingredients are stated below.</p> <p>Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:</p> <p>Substance TWA STEL Notice ppm mg/m³ ppm mg/m³ Sulphuric acid - 1 - 3 - Copper II sulphate pentahydrate - 1 - - As copper, dusts & mists</p> <p>New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:</p> <p>Substance TWA STEL Notice ppm mg/m³ ppm mg/m³ Sulphuric acid - 1 - - A2 Carcinogen Copper II sulphate pentahydrate - 1 - - As copper, dusts & mists</p>
Biological Limit Values	No biological limit allocated.
Other Exposure Information	<p>As published by the National Occupational Health and Safety Commission (NOHSC) and the New Zealand Occupational Safety and Health Service (OSH):</p> <p>TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.</p> <p>STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.</p>
Engineering Controls	Provide sufficient ventilation to keep airborne levels as low as possible. Where general ventilation is inadequate, a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, is required.
Respiratory Protection	If engineering controls are not effective in controlling airborne contaminants then an approved respirator should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make

any necessary changes for individual circumstances.

Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material such as impervious PVC or rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable work wear should be worn to protect against skin exposure. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear bright blue solution.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Soluble
Specific Gravity	Not available
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	Not applicable
Flammability	Non-combustible substance
Auto-Ignition Temperature	Not applicable
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat.
Incompatible Materials	Acetylene gas, aluminum powder, hydroxylamine, magnesium, alkalies, phosphates, hydrazine and nitromethane.
Hazardous Decomposition Products	Thermal decomposition may lead to the release of oxides of copper and sulphur.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicology data available for this product.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Ingestion of this product may irritate the gastric tract, causing nausea and vomiting.
Skin	May be irritating to skin. Skin contact may result in redness and itchiness.
Eye	May be irritating to eyes. On eye contact may cause tearing and redness.
Chronic Effects	Prolonged or repeated skin contact may cause defatting leading to dermatitis. May cause liver and kidney damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence / Degradability	Not available
Mobility	Not available
Environment Protection	Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of according to relevant government regulations.
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14. TRANSPORT INFORMATION

Transport Information

Australia:

This material is a Class 9 - Miscellaneous Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. When the Class 9 - Miscellaneous Dangerous Goods

Are fire risk substances they are incompatible in a placard load with dangerous goods of Class 1, Explosives

Class 5.1, Oxidising Agents and

Class 5.2, Organic Peroxides.

New Zealand:

This material is classified as a Class 9 - Miscellaneous Substance according to NZS 5433:1999 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- (Class 1) Explosives

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

(Note 3; Segregation devices may be used as to segregate dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of);

- (Class 3) Flammable liquids

- (Class 4.1) Flammable solids

- (Class 4.2) Spontaneously combustible substances

- (Class 4.3) Dangerous when wet substances

- (Class 5.1) Oxidising substances

- (Class 5.2) Organic peroxides

- (Class 6.1) Toxic substances

- (Class 6.2) Infectious substances

- (Class 8) Corrosive substances

and from food items.

U.N. Number

3082

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

DG Class

9

Hazchem Code

2X

Packaging Method

3.8.9

Packing Group

III

EPG Number

9C1

IERG Number

47

15. REGULATORY INFORMATION

Regulatory Information	<p>Australia:</p> <p>Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.</p> <p>Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).</p>
Poisons Schedule	S5
National and or International Regulatory Information	<p>New Zealand:</p> <p>Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.</p> <p>Group Standard:</p> <p>Laboratory Chemicals and Reagent Kits Group Standard 2006</p> <p>HSNO Approval Number: HSR002596.</p>
Hazard Category	Dangerous for the environment

16. Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

17.Date of issue 24.11.08

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