

# Material Safety Data Sheet

- 1 -of 4

Infosafe No. ACQX1

Issue Date: August 2008

ISSUED by SOUTHBIOL

**Product Name: FEHLING'S A SOLUTION**

Not Classified as hazardous according to criteria of NOHSC

## COMPANY DETAILS

**Company Name** Southern Biological (ABN 25 838 926 933)  
**Address** 19-21 Worrell Street Nunawading Vic 3131 Australia  
**Tel/Fax** Tel: +61 3 9877 4597 Fax: +61 3 9894 2309

## IDENTIFICATION

**Product Name** FEHLING'S A SOLUTION  
**Proper Shipping Name** None Allocated  
**UN Number** None Allocated  
**DG Class** None Allocated  
**Packing Group** None Allocated  
**Hazchem Code** None Allocated  
**Poisons Schedule** Not Scheduled  
**Product Use** Chemical reagent

## Physical Data

**Appearance** Clear bright blue odourless solution.  
**Melting Point** Not available  
**Boiling Point** Not available  
**Vapour Pressure** Not available  
**Specific Gravity** Not available  
**Flash Point** Not available  
**Flamm. Limit LEL** Not available  
**Flamm. Limit UEL** Not available  
**Solubility in Water** Very soluble

## Other Properties

**pH Value** 4 (50g/1 H2O)  
**Form** Liquid  
**Stability** Stable  
**Haz. Polymerization** Will not occur  
**Materials to Avoid** Unknown

## Ingredients

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Water (to make a total of 100%)	7732-18-5	60-100%
	Copper (II) sulphate 5-hydrate (cupric sulphate)	7758-99-8	0-10%

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- 2 -of 4

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## HEALTH HAZARD INFORMATION

### Health Effects

**Acute - Swallowed** Ingestion of large amounts may cause nausea, vomiting and abdominal pain. May cause hemorrhaging of the digestive tract.

**Acute - Eye** Eye contact may cause stinging, blurring and tearing.

**Acute - Skin** Skin contact may cause redness, itchiness and irritation.

**Acute - Inhaled** Inhalation of vapours or mists generated at elevated temperatures may irritate the respiratory system.

**Chronic** Prolonged or repeated skin contact may cause defatting leading to dermatitis. May cause liver and kidney damage.

## First Aid

**Swallowed** Do NOT induce vomiting. Contact a Poisons Information Centre (Phone 131 126) or a doctor for advice.

**Eye** If in eye(s) wash out immediately with water. If symptoms persist seek medical attention.

**Skin** Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. If symptoms develop seek medical attention.

**Inhaled** In the unlikely event that effects occur remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Seek medical attention.

**First Aid Facilities** Eye wash and normal washroom facilities.

## Advice to Doctor

**Advice to Doctor** Treat symptomatically or consult a Poisons Information Centre (Phone 131 126).

## Other Health Hazard Information

## PRECAUTIONS FOR USE

Exposure Limits	Name	STEL		TWA		Footnote
		Mg/m3	ppm	mg/m3	ppm	
	Copper (II) sulphate 5-hydrate (cupric sulphate)	1.0				As copper, dusts & mists

**Eng. Controls** Ensure sufficient ventilation to maintain airborne concentrations below exposure limits. Mechanical exhaust ventilation may be required.

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- 3 -of 4

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## Personal Protection

<b>Respirator Type</b> AS 1716)	Not normally required. However, if engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable acid gas filter and P1 or P2 particulate filter should be used. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
<b>Eye Protection</b>	Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/ANZ 1337 - Eye Protectors for Industrial Applications.
<b>Glove Type</b>	Impervious PVC or rubber gloves should be worn.
<b>Clothing</b>	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist.
<b>Work/Hygienic Practices</b>	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

## Flammability

**Fire Hazards** This product is non-combustible.

## SAFE HANDLING INFORMATION

### Storage and Transport

<b>Storage Precautions</b>	Store in a cool, dry, well-ventilated area out of direct sunlight. Keep containers tightly closed when not in use and stored away from incompatible materials.
<b>Transport</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>ADG Proper Shipping Name</b>	None allocated.

## Spills and Disposal

<b>Spills &amp; Leaks</b>	Remove all sources of heat. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Place inert, non-combustible absorbent such as vermiculite, sand or dirt onto material. Collect the material and place into a suitable labeled container for subsequent disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
<b>Disposal</b>	Dispose of according to relevant local, state and federal government regulations.
<b>Other Disposal Info.</b>	Solution contains a heavy metal.

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- 4 -of 4

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## Fire/Explosion Hazard

**Fire/Explos. Hazard** This product is non-combustible.

**Hazardous Decomposition Or Byproducts** Thermal decomposition may lead to the release of oxides of copper and sulphur.

**Fire Fighting Procedures** Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

**Extinguishing Media** Use appropriate fire extinguisher for surrounding environment

**Hazchem Code** None allocated

## OTHER INFORMATION

**Toxicology** No toxicology data available for this product.

**Environ. Protection** Do not allow product to enter drains, waterways or sewers.

**Pkg. & Labelling** No special packing or labeling requirements.

## CONTACT POINT

**Contact** Southern Biological  
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0425 725 875 (AH)

...End of MSDS...