

Material Safety Data Sheet

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Infosafe No. ACQX2

Issue Date: August 2008

ISSUED by SOUTHBIOL

Product Name: FEHLING'S B SOLUTION

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
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IDENTIFICATION

Product Name FEHLING'S B SOLUTION
Proper Shipping Name CORROSIVE LIQUID, N.O.S.
UN Number 1760
DG Class 8
Packing Group II
Hazchem Code 4W
Poisons Schedule S6
Product Use Chemical reagent

Physical Data

Appearance Clear, colourless, 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 14
Form Liquid
Stability Stable
Haz. Polymerization Will not occur
Materials to Avoid May react with mineral acids to form corresponding salts; reacts with weak acid gases like hydrogen sulfide, sulfur dioxide, and carbon dioxide; ignites when in contact with cinnamaldehyde or zinc; and reacts explosively with a mixture of chloroform and methane. Corrosive to metals such as aluminium, tin, and zinc as well as to alloys such as steel, and may cause formation of flammable hydrogen gas.

Ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Water (to make a total of 100%)	7732-18-5	60-100%
	Potassium sodium tartrate	304-59-6	30-40%
	Sodium Hydroxide, Solid	1310-73-2	0-10%

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HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed Will cause severe irritation and chemical burns to the gastrointestinal tract.

Acute - Eye Corrosive to the eyes.

Acute - Skin Corrosive to the skin.

Acute - Inhaled Inhalation of vapours or spray mists will cause severe irritation and possible chemical burns to the respiratory tract.

Chronic Chronic effects are unlikely owing to the severity of the acute health effects.

First Aid

Swallowed Do NOT induce vomiting. Contact a Poisons Information Centre (Phone 131 126) or a doctor at once.

Eye If in eye(s) hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

Skin Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before reuse or discard. SEEK IMMEDIATE 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 Safety showers, 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	
	Sodium Hydroxide, Solid			2		Peak limitation

Eng. Controls Natural ventilation should be sufficient, however where vapours or mists are generated the use of a local exhaust ventilation system (drawing vapours / mists away from workers breathing zone) is recommended.

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Personal Protection

Respirator Type (AS 1716) Where ventilation is inadequate and vapour or mist is generated the use of an appropriate respirator complying with AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, is recommended.

Eye Protection The use of face shields, chemical goggles or safety glasses with side shield protection complying with Australian Standard AS/ANZ 1337 is recommended.

Glove Type The use of Nitrile or Neoprene gloves complying with AS 2161 is recommended.

Clothing Suitable workwear should be worn to protect personal clothing, e.g. cotton overalls buttoned at neck and wrist.

Flammability

Fire Hazards Non flammable. This product is non-combustible.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Store in a cool, dry place, out of direct sunlight.

Transport This material is a Class 8 - Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 4.3, Dangerous When Wet Substances
- Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides
- Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),
- Class 7, Radioactive Substances

and are incompatible with food and food packaging in any quantity.

Handling No special handling conditions specified.

ADG Proper Shipping Name CORROSIVE LIQUID, N.O.S.

EPG Number 8A2

IERG Number 37

Packaging Method 5.9.8

Spills and Disposal

Spills & Leaks In the event of a small spill: Wash area down with excess water. Neutralise remaining product with dilute acid, adjusting pH to 6-10. Flush to sewer (if permitted by local regulations). For large spills notify Emergency Services. Contain using sand and earth - prevent runoff into drains and waterways.

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Fire/Explosion Hazard

Fire/Explos. Hazard No unusual fire or explosion hazards.

Hazardous Decomposition Or Byproducts Toxic fumes of sodium oxide, sodium peroxide fumes.

Fire Fighting Procedures Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimize skin exposure.

Extinguishing Media Use appropriate fire extinguisher for surrounding environment.

Hazchem Code 4W

OTHER INFORMATION

Toxicology No toxicity data available for this material.

Risk Statement R35 causes severe burns.

Safety Statement
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Hazard Category Very corrosive

Technical Data Mix with an equal part of Fehling's Solution No.1 BP immediately before use. A clear, dark blue solution is formed.

Ecological Information No ecological information is available for this material.

CONTACT POINT

Contact Southern Biological
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...End of MSDS...