

# Material Safety Data Sheet

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Issue Date: September 2004  
Issued By: Southern Biological  
Product Name: ALCOHOL 70%

Not classified as hazardous according to criteria of NOHSC

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## COMPANY DETAILS

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

## IDENTIFICATION

**Product Name** ALCOHOL 70%  
**Proper Shipping Name** ETHANOL SOLUTIONS (ETHYL ALCOHOL SOLUTIONS)  
**UN Number** 1170  
**DG Class** 3  
**Packing Group** III  
**Hazchem Code** 2[Y]  
**Poisons Schedule** Not scheduled  
**Product Use** Laboratory use

## Physical Data

**Appearance** Clear colourless liquid  
**Melting Point** Not available  
**Boiling Point** 79.2°C  
**Vapour Pressure** Not available  
**Specific Gravity** 0.893 at 15°C  
**Flash Point** 25°C  
**Flamm. Limit LEL** Not available  
**Solubility in Water** Soluble

## Other Properties

**Stability** Stable under normal conditions  
**Haz Polymerisation** Will not occur  
**Materials to Avoid** Strong oxidising agents

## Ingredients

<b>Ingredients</b>	<b><u>Name</u></b>	<b><u>CAS</u></b>	<b><u>Proportion</u></b>
	Ethanol	64-17-5	60 – 100%
	Water	7732-18-5	30-60%
	Methanol	67-56-1	1-10%

## HEALTH HAZARD INFORMATION

### Health Effects

**Acute – Swallowed** Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system. Signs and symptoms are similar to those of alcohol intoxication.

**Acute – Eye** May cause eye irritation, tearing, stinging, blurred vision and redness.

**Acute – Skin** May cause redness, itching and irritation.

**Acute – Inhaled** Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

**Chronic** Prolonged or repeated skin contact may cause defatting leading to dermatitis. Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches.

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## First Aid

**Swallowed** Do NOT induce vomiting. If a large amount has been swallowed, or if symptoms develop, contact a Poisons Information Centre (phone 131-126) or a doctor at once.

**Eye** If in eyes, wash out immediately with water. If symptoms persist, seek medical attention.

**Skin** Wash affected area thoroughly with soap and water. If symptoms develop, seek medical attention.

**Inhaled** 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. Apply artificial respiration if not breathing. Seek medical attention.

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

## Advice To Doctor

**Advice to Doctor** Treat symptomatically.

## Other Health Hazard Information

### PRECAUTIONS FOR USE

Exposure Limits	Name	STEL		TWA	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
	Ethanol			1880	1000
	Methanol	328	250	262	200

**Other Exposure Info.** TWA – the Time Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

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. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Eng. Controls** Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

## Personal Protection

**Respirator Type (AS 1716)** If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Final choice of appropriate breathing protection is dependent 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.

**Eye Protection** Safety glasses with side shields, goggles or full face shield should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Glove Type** Impervious PVC or rubber gloves should be worn to avoid prolonged skin contact.

**Clothing** Suitable protective clothing should be worn, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled, the use of plastic aprons and rubber boots is recommended.

**Work/Hygienic Practices** Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

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## Flammability

**Fire Hazards** FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Electrically link and ground metal containers for transfers of the product to prevent accumulation of static electricity. Keep the container tightly closed.

## SAFE HANDLING INFORMATION

### Storage and Transport

**Storage Precautions** Store in a cool, dry, well ventilated area away from sources of ignition. This product should be stored away from foodstuffs and strong oxidising agents. For information on the design of the store-room, reference should be made to Australian Standard AS1940, The Storage and Handling of Flammable and Combustible Liquids. Reference should also be made to any relevant Commonwealth, State or Territory regulations.

**Transport** This material is a Class 3 – Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 – Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk.
- Class 2.3, Toxic Gases
- Class 4.2, Spontaneously Combustible Substances
- Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides
- Class 6, Toxic Substances (where the flammable liquid is nitromethane)
- Class 7, Radioactive Substances.

**Proper Shipping Name** ETHANOL SOLUTIONS (ETHYL ALCOHOL SOLUTIONS)

**EPG Number** 3A1

**IERG Number** 14

**Packaging Method** 5.9.3RTI

### Spills and Disposal

**Spills and Leaks** Remove all sources of ignition. 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 labelled container for subsequent disposal. If large quantities of this material enter the waterways, contact the Environmental Protection Authority, or your local Waste Management Authority.

**Disposal** Dispose of according to relevant government regulations.

### Fire/Explosion Hazard

**Fire/Explosion Hazard** This product is flammable. Vapours are heavier than air and will “travel” to low-level areas, e.g. sumps, drains, etc and flashback. Precautions should be taken to eliminate the build up of explosive mixtures.

**Hazardous Combustion Products** Under fire conditions, this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

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

**Extinguishing Media** Use dry agent, foam or water mist.

**Hazchem Code** 2[Y]

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## **OTHER INFORMATION**

**Toxicology** No toxicity data is available for this product.  
**Environ Protection** Prevent this material entering waterways, drains and sewers.  
**Risk Statement** R10 Flammable.  
**Safety Statement** S16 Keep away from sources of ignition - No Smoking.

## **CONTACT POINT**

**Contact** Southern Biological  
Peter Ball  
Phone: +61 3 9877 4597 (BH)  
0425 725 875 (AH)

**\*\*\* END OF MSDS \*\*\***