

# Material Safety Data Sheet

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Infosafe No. ACQ16

Issue Date: August 2007

ISSUED by SOUTHBIOL

**Product Name: FORMALIN/ACETIC ACID/ALCOHOL**

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** FORMALIN/ACETIC ACID/ALCOHOL  
**Proper Shipping Name** FLAMMABLE LIQUIDS, N.O.S. - (Contains Ethanol)  
**UN Number** 1993  
**DG Class** 3  
**Packing Group** II  
**Hazchem Code** 3 (Y)E  
**Poisons Schedule** Not Scheduled

## Physical Data

**Appearance** Clear colourless liquid with a slightly pungent alcohol odour.  
**Melting Point** Not available  
**Boiling Point** > 35°C  
**Vapour Pressure** Not available  
**Specific Gravity** Not available  
**Flash Point** 11°C  
**Flamm. Limit LEL** 3.3% (Ethanol)  
**Flamm. Limit UEL** 19% (Ethanol)  
**Solubility in Water** Soluble

## Other Properties

**Vapour Density** Heavier than air.  
**Stability** Stable.  
**Haz. Polymerization** Will not occur.  
**Materials to Avoid** Strong oxidizing agents, strong bases, strong acids and phenols.

## Ingredients

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Ethanol	64-17-5	30-60%
	Acetic Acid	65-19-7	1-10%
	Methanol	67-56-1	0-1%
	Other ingredients determined not to be hazardous		Balance

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## HEALTH HAZARD INFORMATION

### Health Effects

- Acute - Swallowed** Harmful if swallowed. Ingestion may cause nausea, vomiting, abdominal pain, decreased body temperature, shallow respiration, weak irregular pulse and CNS depression with symptoms including dizziness, drowsiness, weakness, fatigue, headache and possible unconsciousness.
- Acute - Eye** Eye contact will cause stinging, blurring and tearing.
- Acute - Skin** Harmful in contact with skin. May be absorbed through the skin with resultant toxic effects similar to those seen if the product is swallowed. Skin contact will cause severe irritation with white discoloration, smarting, cracking and scaling. May cause sensitization in some individuals.
- Acute - Inhaled** Harmful by inhalation. Inhalation may irritate the respiratory system. Symptoms of exposure may include nausea, headaches, coughing and breathing difficulties. Significant exposure may cause bronchitis and pneumonia.
- Chronic -** Prolonged or repeated inhalation may cause occupational asthma and laryngitis. It is important to recognise that this product is classified as a Category 3 Carcinogen according to the National Occupational Health And Safety Commission (NOHSC). That is, there is some evidence from appropriate animal studies that human exposure can result in the development of cancer, but this evidence is insufficient to place the substance in Category 2.

## First Aid

- Swallowed** DO NOT INDUCE VOMITING. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.
- Eye** If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.
- Skin** Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse or discard. 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. If symptoms develop seek medical attention.
- First Aid Facilities** Eye wash station, safety shower and normal washroom facilities.

## Advice to Doctor

- Advice to Doctor** Treat symptomatically or consult a Poisons Information Centre.

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## Other Health Hazard Information

### PRECAUTIONS FOR USE

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ethanol			1880	1000	
	Acetic Acid	37	15	25	10	
	Methanol	328	250	262	200	

**Eng. Controls** Ensure sufficient ventilation to keep airborne concentrations below exposure limits. Local exhaust ventilation should be used.

### Personal Protection

**Respirator Type (AS 1716)** If engineering controls are not effective in controlling airborne exposure then a supplied air respirator 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.

**Eye Protection** Safety glasses with side shields or goggles 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.

**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.

### Flammability

**Fire Hazards** HIGHLY 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 incompatible materials. 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.

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## 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.

**ADG Proper Shipping Name** FLAMMABLE LIQUIDS, N.O.S. - (Contains Ethanol)

**ADG EPG Number** 3A1

**ADG IERG Number** 14

## Spills and Disposal

### Spills & Leaks

Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin and eye exposure. If possible contain the spill. Place inert, non-combustible absorbent such as vermiculite, sand or dirt onto material. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Mop up the remaining material and place into the same container. 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 local, state and federal government regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

## Fire/Explosion Hazard

### Fire/Explos. Hazard

This product is highly 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 oxides of carbon and formaldehyde.

### Fire Fighting Procedures

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

### Extinguishing Media

Use foam or dry agent.

### Hazchem Code

3(Y)E

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## OTHER INFORMATION

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

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

**Risk Statement** R11 Highly flammable.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40(3) Possible risk of irreversible effects.  
R43 May cause sensitization by skin contact.

**Safety Statement** S16 Keep away from sources of ignition - No smoking.  
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  
S51 Use only in well ventilated areas.

**Hazard Category** Harmful, Irritant

## CONTACT POINT

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

...End of MSDS...