

PRODUCT NAME: **Methylated Spirits**

1. IDENTIFICATION OF MATERIAL & SUPPLIER

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SYNONYM(S) Denatured ethanol in water
USE(S) As a general purpose solvent.
MSDS DATE: 04 July 2011

2. HAZARDS IDENTIFICATION

Hazardous according to criteria of Worksafe Australia. Dangerous Goods.

Risk Phrases:

R: 10 Flammable.
R: 36/38 Irritating to skin and eyes.

Safety Phrases:

S: 7/9 Keep container tightly closed and in a well ventilated place.
S: 16 Keep away from sources of ignition.
S: 24/25 Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	FORMULA	CAS NO.	CONTENT
Ethanol	Not Available	[64-17-5]	30 - 60 %
Alcohol denaturants	Not Available	Not Available	trace
Water	H2O	[7732-18-5]	to 100 %

4. FIRST AID MEASURES

EYE Hold eyes open, flood with water for at least 15 minutes and seek medical advice.
INHALATION Remove from exposure.
SKIN Remove contaminated clothing and wash skin thoroughly
INGESTION Do not induce vomiting. Give a glass of water
ADVICE TO DOCTOR Product contains a high proportion of denatured ethanol in water. Irritating to skin and eyes. Central nervous system depressant. Contact Poisons Information Centre.
FIRST AID FACILITIES Recommended: Eye wash. Hand wash basin.

5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION Yes. Ethanol vapours are heavier than air - risk of remote ignition. CAUTION: Ethanol flames may be almost invisible in bright sunlight.

EXTINGUISHING Water fog or fine water spray.
HAZCHEM CODE 2[Y]

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE

Emergency Procedures:

Shut off all sources of ignition. Increase ventilation. Contain. Prevent spillages from entering drains, natural waters or the environment.

For large spills:

Contain spillage using sand or earth. Transfer liquid and solids to suitable closed container. Treat residues as for small spillage.

For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to suitable closed container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

7. STORAGE AND HANDLING

STORAGE

Store in a cool, well-ventilated place, out of reach of children. Large quantities should be stored in a bonded flammables store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from sources of ignition. Prevent vapours from collecting in enclosed or low-lying places. Take precautionary measures against static discharges. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

HANDLING

Keep away from sources of ignition. Avoid contact with skin and eyes.

8. EXPOSURE CONTROLS / PERSONAL EQUIPMENT

EXPOSURE STANDARDS

ES-TWA: Ethanol 1,000 ppm, 1,880 mg/m³

ES-STEL: None assigned.

ES-PEAK: None assigned.

Notations: None.

BIOLOGICAL LIMIT VALUES

No data found.

ENGINEERING CONTROLS

Use only flame-proof equipment. Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities or if vapour/aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible, and at least below the TLV.

PPE

Avoid contact with skin and eyes. Do not breathe concentrated vapours. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

Normal Use:

Eye/face protection, gloves, rubber or plastic.

Industrial Quantities: Face shield or safety glasses, gloves: rubber or plastic, plastic apron, sleeves and boots Impervious overalls.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Clear, almost colourless	SOLUBILITY (WATER):	Miscible with water in all proportions.
ODOUR:	Characteristic methylated spirits odour.	SPECIFIC GRAVITY:	0.92 g/mL @ 20 °C
pH:	About neutral.	% VOLATILES:	100%
VAPOUR PRESSURE:	About 5.8 kPa @ 20 °C	FLAMMIBILITY:	3.3 - 19.0 % (ethanol)
VAPOUR DENSITY:	1.59 (Air = 1)	FLASH POINT:	About 24 °C (closed cup)
BOILING POINT:	From about 78 °C	UPPER EXPLOSION LIMIT:	Not Relevant
MELTING POINT:	No Data	LOWER EXPLOSION LIMIT:	Not Relevant
EVAPORATION RATE:	2.53 (n-butyl acetate = 1)	AUTOIGNITION:	363 °C [ethanol]

10. STABILITY & REACTIVITY

MATERIAL TO AVOID:	Chemical Stability:	Stable under normal conditions.
	Conditions to Avoid:	Incompatible materials, sources of ignition.
	Incompatible Materials:	Oxidising agents, strong mineral acids.
DECOMPOSITION:	Hazardous Decomposition Products:	Oxides of carbon.
	Hazardous Reactions:	Contact with strong oxidising agents may cause fire.

11. TOXICOLOGICAL INFORMATION

EYE	Moderate irritant. May cause redness, pain and a burning sensation. Contact with the liquid may cause severe irritation, and may injure tissues. May cause painful sensitisation to light.
INHALATION	Moderate irritant to mucous membranes and respiratory system. May cause cough, headache, drowsiness and fatigue. Prolonged exposure to the vapour may cause headaches and symptoms of central nervous system depression. Vapours may cause irritation to the nose and eyes at concentrations well below the TLV.
SKIN	Moderately irritating to skin. May cause redness and drying of the skin.
INGESTION	Bitter taste. May cause headache, dizziness, dullness, gastric disorders and symptoms of central nervous system depression. Small doses may cause reddening of the face and neck, and an exaggerated feeling of well-being. Larger doses may cause an initial burst of excitement and activity, followed by increasing loss of coordination, slurred speech, nausea and drowsiness, leading to stupor, coma and possible death.
TOXICITY DATA	LD50: Ethanol 7,060 mg/kg oral, rat. 3,450 mg/kg oral, mouse. LDLo: Ethanol 1,400 mg/kg oral, human. 2,000 mg/kg oral, child.

12. ECOLOGICAL INFORMATION

ENVIRONMENT	Eco-toxicity: May be harmful to aquatic organisms.
	Persistence and degradability: No data.
	Mobility: Readily transported by water.
	Environmental Fate: No data.
	Bio-accumulative potential: None.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL The generator of any wastes from this product is responsible for its proper classification, transport and disposal. Consult appropriate local and State regulations. Disposal methods and containers: Avoid disposal to drains, natural waters or the environment. Special precautions for landfill or incineration: High temperature incineration. Not suitable for landfill.

14. TRANSPORT INFORMATION

SHIPPING NAME:	Ethanol solution.			
UN No.	UN 1170	DG CLASS		SUBSIDIARY RISK(S)
Pkg GROUP	III	HAZCHEM CODE	2Y	EPG

15. REGULATORY INFORMATION

POISON SCHEDULE Poisons (SUSDP): Schedule 5 Methylated spirits.
Except:
- when in preparations or admixtures; or
- in containers of more than 5 litres.

AICS Dangerous Goods: Yes. UN 1170 Class 3 Group III HAZCHEM 2[Y]
Listed

16. OTHER INFORMATION

ADDITIONAL INFORMATION:

Additional Information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

ADB - Air-Dry Basis.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m³ - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

TWA/ES - Time Weighted Average or Exposure Standard.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

This document has been compiled by the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS'). It is based on information concerning the product which has been provided to Ecowash Solutions obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

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