

Section 1: Identification of the Material and Supplier

Product Name: Methylated spirits, diluted

Other Names: Denatured ethanol in water.

Proper shipping name (ADG Code): Ethanol solution.

Recommended use: As a general purpose solvent.

Supplier: Ecowash Systems

ACN: 003 060 160

50 Chard Road, BROOKVALE NSW 2100, Australia

Tel: +61 2 9938 1800 (business hours)

Fax: +61 2 9905 0979

Emergency Phone Numbers:

Transport/Fire Emergency: **000** (Emergency services)

Medical Emergency: **131126** (Poisons Information Centre)

Section 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.

Section 3: Composition/Information on Ingredients

Ingredients:

Ethanol [64-17-5] 30 - 60 %

Alcohol denaturants trace

Water [7732-18-5] to 100 %

Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131 126) or a doctor.

Swallowed: Do not induce vomiting.

Skin: Remove contaminated clothing and wash skin thoroughly.

Eyes: Hold eyes open, flood with water for at least 15 minutes and seek medical advice.

Inhaled: Remove from exposure.

First Aid facilities:

Recommended: Eye wash. Hand wash basin.

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.

Aggravated medical conditions:

Pre-existing liver dysfunction.

Section 5: Fire Fighting Measures

HAZCHEM Code: 2[Y]

Evacuate: No.

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: Yes.

Ethanol vapours are heavier than air - risk of remote ignition.

CAUTION: Ethanol flames may be almost invisible in bright sunlight.

Products of combustion: Water vapour, oxides of carbon.

Protective Equipment: Breathing apparatus and protective gloves for fire only.

Section 6: Accidental Release Measures

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.

Section 7: Handling and Storage

Precautions for safe handling:

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

Conditions for safe 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.

Incompatibles:

Oxidising agents.

Section 8: Exposure Controls/Personal Protection

National 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.

Personal Protective Equipment:

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.

Section 9: Physical and Chemical Properties

Appearance: Clear, almost colourless, mobile liquid.
Odour: Characteristic methylated spirits odour.
pH: About neutral.
Vapour Pressure: About 5.8 kPa @ 20 °C
Vapour Density: 1.59 (Air = 1)
Boiling Point: From about 78 °C
Melting Point: No data.
Volatiles: 100 %
Volatile Organic Compounds (VOC): About 47 %
Evaporation Rate: 2.53 (n-butyl acetate = 1)
Solubilities: Miscible with water in all proportions.
Specific Gravity/Density: 0.92 g/mL @ 20 °C
Flash Point: About 24 °C (closed cup)
Flammable Limits: 3.3 - 19.0 % [ethanol]
Dust Explosion: Not applicable.
Auto-ignition Temperature: 363 °C [ethanol]

Other Information:

Flammable liquid.
Contact with strong oxidising agents may cause fire.
Slippery when spilled.

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

Acute: Swallowed: 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.

Skin: Moderately irritating to skin. May cause redness and drying of the skin.

Eyes: 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.

Inhaled: 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.

Chronic: Prolonged or repeated skin contact may lead to dermatitis. Chronic over-exposure to ethanol (including ingestion) may lead to liver and kidney injury, damage to the central nervous system and symptoms of alcoholism. Consumption of ethanol during pregnancy has been linked to adverse reproduction effects, including birth defects, in animals and humans.

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.

Section 12: Ecological Information

Ecotoxicity: May be harmful to aquatic organisms.
Persistence and degradability: No data.
Mobility: Readily transported by water.
Environmental Fate: No data.
Bioaccumulative potential: None.
Other adverse environmental effects: No data.

Section 13: Disposal Considerations

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.

Section 14: Transport Information

UN Number: UN 1170
UN Proper shipping name: Ethanol solution.
Class and subsidiary risk: 3 Flammable liquid.
Packaging group: III
Special precautions for user: Keep away from sources of ignition CAUTION: Ethanol flames may be nearly invisible in bright sunlight.
HAZCHEM Code: 2[Y]
Material for export: Refer to IMDG/IMO and IATA/ICAO.

Section 15: Regulatory Information

Poisons (SUSDP): Schedule 5 Methylated spirits.

Except:

- when in preparations or admixtures; or
- in containers of more than 5 litres.

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

Carcinogen: Australia IARC NTP
No. No. No.

Agricultural and Veterinary Chemicals Act: Not applicable.

Australian Inventory of Chemical Substances (AICS): Listed.

Other National/International Regulations: No data.

Section 16: Other information

Date of MSDS update: June 2005 Complete review and update of all sections.

Disclaimer

The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties.

Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.