

## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product name:** **METHYLATED SPIRITS - METHS**  
**Other names:** Ethanol, Ethyl Alcohol, Alcohol, Meths, HMS, Hydrous Methylated Spirits, Coloured Methylated Spirits, Metho  
**Recommended Use:** Cleaning product, bactericide, raw material in other products.  
**Supplier:** Tradextra Ltd  
**Address:** 3 Glenmore Drive, Warkworth 0910  
PO Box 437, Warkworth 0941  
**Telephone:** (+64) 9 425 0235  
**Facsimile:** (+64) 9 425 0236  
**Website:** [www.tradextra.co.nz](http://www.tradextra.co.nz)  
**Emergency phone:** **National Poison Centre**  
**0800 764 766**

### SECTION 2: HAZARD(S) IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

**HSNO Classifications**

3.1B, 6.4A, 9.1D

**Signal Word**

DANGER

**Hazard Statements:**

H225 Highly flammable liquid and vapour

H402 Harmful to aquatic life  
H320 Causes eye irritation

**Precautions Statements:**

P103 Read label before use  
P233 Keep container tightly closed

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P240 Ground container and receiving equipment

P241 Use explosion-proof equipment

P264 Wash hands thoroughly after handling

P243 Take precautionary measures against static discharge

P273 Avoid release to the environment

P280 Wear protective clothing, gloves and eye protection

### SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

| Chemical Ingredient  | CAS no.   | Proportion (%) |
|----------------------|-----------|----------------|
| Ethyl Alcohol        | 64-17-5   | >99.9          |
| Deanatonium benzoate | 3734-33-6 | 0.00156        |

## SECTION 4: FIRST-AID MEASURES

For advice, contact National Poison Centre (0800 POISON; 0800 764 766) or a doctor. Have product container or label available.

### Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

### Skin Contact

if skin or hair contact occurs, remove contaminated clothing and wash affected area with soap and water. If irritation persists, get medical attention.

### Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

### Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if symptoms continue. Begin artificial respiration if breathing has stopped. Get immediate medical attention.

### First Aid Facilities

Provide eye baths and safety showers close to areas where splashing may occur.

### Medical Attention

Treat according to symptoms. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury.

## SECTION 5: FIRE-FIGHTING MEASURES

**Flashpoint:** 13°C

**Flammable Limits:** LFL: 3.3% UFL:24.5%

**Extinguishing media:** Dry chemical or alcohol foam or CO<sub>2</sub>. Water spray or water fog for large fires only.

**Fire & Explosion Hazards:** Highly flammable liquid and vapour. Expansion or decomposition of containers may lead to violent rupture of containers.

**Firefighting Equipment:** Full protective clothing and self-contained breathing apparatus (SCBA).

**In event of fire:**

- Alert Fire Station (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment until vapour hazard removed.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

**Hazards from combustion products:** Smoke, Carbon Dioxide, Carbon Monoxide.

**Hazchem code:** 3Y

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Emergency Procedures & containment:** refer to 'Fire Fighting Measures,' 'First Aid Measures' and 'Stability and Reactivity.'

### Minor spills

- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container suitable for flammables.
- Seal container and dispose of safely.

### Major spills

- Clear area of personnel and move upwind.
- Alert Fire Station (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves.
- Stop leak or safe to do so.
- Contain spill with sand, earth or vermiculite.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition, naked lights. No smoking.
- Increase ventilation.
- Water spray or fog may be used to disperse/absorb vapour.
- Use only spark-proof tools, e.g. shovels, and explosion proof equipment, e.g. pumps.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handlings:** Read product label before use. Handle containers with care. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. Do NOT use plastic buckets. Use only spark-free tools. Avoid all personal contact including by inhalation. Wear personal protective equipment and clothing including gloves and wash hands with soap and water after handling. Open slowly to control possible pressure release. Use in well-ventilated area. Wash hands with soap and water after handling.

**Conditions for safe storage:** Locked up in original packaging in a cool, dry, well-ventilated place. Check containers periodically for leaks or distortion.

**Incompatible materials:** Natural rubber, butyl rubber, EDPM, polystyrene.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Health Exposure Standards:** Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health

Service , NZ Department of Labour for this product  
Ethyl Alcohol 1000 ppm (1800 mg/m<sup>3</sup>) -

**Biological limit values:** None established.

**Engineering controls:** Ventilation – Use in well-ventilated area. The use of local exhaust ventilation is recommended to control emissions near the source. Provide ventilation in confined spaces. Use explosion-proof ventilation equipment

### Personal Protective Equipment:

Respiratory Protection – Where air concentration may exceed the limits described in the Workplace Exposure Standards, wear SAA approved respiratory protection. A type “A” filter material is considered suitable for this product.

Eye Protection – protect eyes from splashes or vapour. Always use safety glasses with side shields or goggles are worn.

Skin / Body Protection – If using product in large quantities in commercial or industrial situations, wear chemical resistant gloves, e.g. PVC, nitrile rubber, also safety footwear or safety gumboots, e.g. rubber. Always wear long sleeves and long trousers or coveralls; PVC apron.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property                   | Unit of Measurement | Typical value           |
|----------------------------|---------------------|-------------------------|
| Appearance                 | -                   | Clear colourless liquid |
| Odour                      | -                   | Alcohol                 |
| Flash Point                | °C                  | 14                      |
| Auto-ignition              | °C                  | 363                     |
| Specific gravity @ 20°C    | g/ml                | 0.79                    |
| Vapour pressure @ 20°C     | mm Hg               | Not available           |
| Vapour density @ 20°C      | kPa                 | Not available           |
| Explosive limits in air    | %                   | Not available           |
| Viscosity                  | cSt                 | Not available           |
| Volatiles                  | %vol/vol            | Not available           |
| Alkalinity/acidity (as pH) | -                   | Not applicable          |
| Solubility in Water        | % w/w               | Completely miscible     |

The values listed are indicative of this product's physical and chemical properties.

## SECTION 10: STABILITY AND REACTIVITY

**Chemical stability:** Stable at room temperature and pressure.

**Conditions to avoid:** Sources of heat and ignition, open flames.

**Hazardous decomposition products:** No decomposition products except on burning. See 'Fire Fighting Measures' and 'Hazardous Reactions.'

**Hazardous reactions:** Strong oxidizing agents, peroxides, acid chlorides, acid anhydrides, alkali metals, ammonia.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Acute Effects:**

Ingestion – May be harmful if swallowed. Aspiration into the lungs by ingestion or vomiting may result in chemical pneumonitis or pulmonary oedema. Symptoms of over-exposure are nausea, vomiting and inebriation. Product contains denatonium benzoate, a bittering agent, so ingestion is unlikely.

Eye contact – This product may be irritating to the eyes causing short term discomfort if not rinsed out immediately. Will not permanently damage eye tissue.

Skin contact – Can be mildly irritating to the skin. Prolonged or repeated exposure will increase risk of dryness and cracking of skin.

Inhalation – Vapours may be irritating to nose and throat. Exposure to high concentrations over an extended time will result in headaches, drowsiness, dizziness, nausea and inebriation.

**Chronic Effects:** mild central nervous system depressant. Chronic exposure (by ingestion) may lead to liver damage.

**Other Health Effects Information:** n/a.

**Toxicological Information:** n/a.

## **SECTION 12: ECOLOGICAL INFORMATION**

Do not discharge product to sewer, drains or waterways.

### **Ecotoxicity:**

Aquatic toxicity – product is identified as being harmful to aquatic life. Ethyl alcohol has biocidal effect at high concentrations.

Ecotoxicity info: Ethyl alcohol *Daphnia magna* LC50 (48hr) 9.3mg/L

Persistence/degradability – no information available to indicate product is persistent or bioaccumulative.

Mobility –Product is highly volatile and will rapidly dissipate.

**Environmental Exposure Standards:**

|                 |         |
|-----------------|---------|
| EEL (water)     | Not set |
| EEL (soil)      | Not set |
| EEL (sediments) | Not set |

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Disposal methods:** Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain vapours that are flammable. Ensure that empty packaging is allowed to dry. If not recycled, puncture and crush before disposal to landfill. Do not use container for storage of other products.

**SECTION 14: TRANSPORT INFORMATION**

|                |                                           |
|----------------|-------------------------------------------|
| UN number:     | 1170                                      |
| Shipping name: | ETHANOL SOLUTION (ethyl alcohol solution) |
| Class:         | 3                                         |
| Packing Group: | III                                       |
| Hazchem code:  | 3Y                                        |

**Dangerous Goods Segregation** – This product is classified as Dangerous Goods Class 3, packing group III. Please consult NZS 5433:2007 Transport of Dangerous Goods on Land for information.

**SECTION 15: REGULATORY INFORMATION**

**Country / Region:** New Zealand

**Inventory:** NZCIL

**Status:** Listed

**ERMA New Zealand Approval Code:** Denatured Alcohol Group Standard 2006 HSR002553; CLEAR METHYLATED SPIRITS.

**SECTION 16: ANY OTHER RELEVANT INFORMATION**

**Date of issue:** 10<sup>th</sup> June 2022

**Reasons for issue:** Change in format

**Abbreviations:**

|           |                                         |
|-----------|-----------------------------------------|
| CAS No    | Chemical Abstracts Number               |
| EPA/ ERMA | Environmental Risk Management Authority |
| HSNO      | Hazardous Substances and New Organisms  |

|      |                                |
|------|--------------------------------|
| NZCI | New Zealand Chemical Inventory |
| STEL | Short Term Exposure Limit      |
| TWA  | Time Weighted Average          |
| WES  | Workplace Exposure Standard    |

**References:**

Supplier Material Safety Data Sheets

ERMA website: [www.ermanz.govt.nz](http://www.ermanz.govt.nz)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but it is no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Tradextra Ltd.

END OF SAFETY DATA SHEET