

## SAFETY DATA SHEET

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

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Product Identifier</b> | <b>METHYLATED SPIRITS</b>       |
| <b>Other Names</b>        | Ethanol, Ethyl Alcohol, IMS     |
| <b>Recommended Use</b>    | Solvent, Fuel, Cleaning Solvent |

#### Details of Supplier/Manufacturer

|          |  |
|----------|--|
| Company: | <b>BRACTON CHEMICALS™ - A DIVISION OF SOSAFE™ SPECIALTY PRODUCTS</b> |
| Address: | 50 Chard Rd Brookvale NSW 2100                                       |
| Phone:   | 02 9938 1800   |
| Website: | bractonchemicals.au  |


#### Emergency Telephone Numbers

|                      |              |
|----------------------|--------------|
| Business Hours:      | 02 9938 1800 |
| After Hours:         | 02 9938 1800 |
| Poisons Information: | 13 11 26     |

### SECTION 2 HAZARDS IDENTIFICATION

|                           |   |
|---------------------------|---|
| <b>Hazardous chemical</b> | <i>according to classification by Safe Work Australia</i>                                     |
| <b>Dangerous goods</b>    | <i>according to the Australian Code for the Transport of Dangerous Goods by Road and Rail</i> |

|                    |               |
|--------------------|---------------|
| <b>Signal Word</b> | <b>DANGER</b> |
|--------------------|---------------|

| GHS Classification            | Pictogram  | Hazard statement                        |
|-------------------------------|--|---|
| Flammable Liquids, Category 2 | <br>FLAME | H225 Highly flammable liquid and vapour |

#### Precautionary statements:

| GENERAL      |  |
|--------------|--|
| P101         | If medical advice is needed, have product container or label at hand |
| P102         | Keep out of reach of children  |
| P103         | Read label before use  |
| PREVENTATIVE |  |
| P210         | Keep away from heat/sparks/open flames/hot surfaces. - No smoking    |
| P233         | Keep container tightly closed  |

**Product: METHYLATED SPIRITS**

|                    |  |
|--------------------|--|
| P240               | Ground/bond container and receiving equipment  |
| P241               | Use explosion-proof electrical/ventilation/lighting equipment  |
| P242               | Use only non-sparking tools  |
| P243               | Take precautionary measures against static discharge   |
| P280               | Wear protective gloves/eye protection/face protection  |
| <b>RESPONSE</b>    |  |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower |
| P370 + P378        | In case of fire: Use foam/water spray/fog for extinction   |
| <b>STORAGE</b>     |  |
| P403 + P235        | Store in a well-ventilated place. Keep cool  |
| <b>DISPOSAL</b>    |  |
| P501               | Dispose of contents/container in accordance with local regulations                                       |

**SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS****Ingredients Names and Proportions**

| Chemical Entity | CAS Number | Proportion (%) |
|-----------------|------------|----------------|
| Ethanol         | 64-17-5    | >= 95          |
| Water           | 7732-18-5  | <= 5           |

**SECTION 4 FIRST AID MEASURES****Description of necessary first aid measures**

|               |   |
|---------------|---|
| Inhalation:   | Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing. |
| Skin Contact: | If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.  |
| Eye Contact:  | If in eyes, hold eyes open, flood with water for at least 15 minutes. If symptoms persist transport to nearest medical facility for additional treatment.                     |
| Ingestion:    | If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment.   |

**Symptoms caused by exposure**

|             |   |
|-------------|---|
| Inhalation: | May cause irritation to the respiratory system. Inhalation of the vapour may result in drunkenness (as per effects of ingestion). Early symptoms may occur at airborne levels of 1000 to 5000ppm.   |
| Skin:       | May include burning sensation and/or a dried/cracked appearance. Prolonged contact may cause defatting of skin which can lead to dermatitis.  |
| Eye:        | May include burning sensation, redness, swelling and/or blurred vision.   |
| Ingestion:  | Can cause drunkenness or harmful central nervous system effects. The deliberate ingestion of ethanol (50-100ml) may cause inebriation such that safety is impaired. Effects of a small intake may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, and fatigue. Ingestion of a large amount may lead to severe acute intoxication, tremours, convulsion, loss of consciousness, coma, respiratory arrest and death. |

**Medical attention and special treatment**

Treat symptomatically.

**Product: METHYLATED SPIRITS**

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## **SECTION 5 FIRE FIGHTING MEASURES**

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### **Suitable extinguishing equipment**

Alcohol stable foam, water spray or fog. Dry chemical powder, carbon dioxide for small fires only. Do not use water in a jet.

### **Specific hazards arising from the chemical**

Carbon monoxide and/or carbon dioxide may be evolved.

### **Special protective equipment and precautions for fire fighters**

Wear full protective clothing and self-contained breathing apparatus. Hazchem code •2YE.

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## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

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### **Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

### **Environmental precautions**

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

### **Methods and materials for containment and cleaning up**

For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

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## **SECTION 7 HANDLING AND STORAGE**

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### **Precautions for safe handling**

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

### **Conditions for safe storage, including any incompatibilities**

Bulk storage tanks should be banded. Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

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## **SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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### **Exposure control measures**

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia -  
Ethanol: 1880mg/m<sup>3</sup> (1000ppm) TWA (8hr)

### **Biological monitoring**

No biological limit allocated.

### **Engineering controls**

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

**Product: METHYLATED SPIRITS****Individual protection measures**

|                          |   |
|--------------------------|---|
| Eye and face protection: | Wear safety goggles.  |
| Skin protection:         | Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.   |
| Respiratory protection:  | If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority. |
| Thermal hazards:         | Not applicable.   |

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

|   |                         |
|---|-------------------------|
| Appearance:                                       | Colourless clear liquid |
| Odour:  | Alcoholic               |
| Odour threshold (ppm):                            | Data not available      |
| pH:   | Data not available      |
| Melting point/freezing point (°C):                | -117                    |
| Initial boiling point and boiling range (°C):     | 78                      |
| Flash point (°C):                                 | 13 (Abel)               |
| Evaporation rate (Butyl acetate = 1):             | Data not available      |
| Flammability:                                     | Data not available      |
| Upper/lower flammability or explosive limits (%): | 3.5 - 19.0              |
| Vapour pressure (mmHg @ 20°C):                    | 44                      |
| Vapour density (air = 1, @ 15°C):                 | 1.59                    |
| Density (g/ml @ 15°C):                            | 0.79 - 0.81             |
| Solubility:                                       | Data not available      |
| Partition coefficient: n-octanol/water:           | Data not available      |
| Auto-ignition temperature (°C):                   | 392                     |
| Decomposition temperature (°C):                   | Data not available      |
| Kinematic viscosity (mm <sup>2</sup> /s @ 20°C):  | Data not available      |

**SECTION 10 STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

Stable under normal conditions of use.

**Product: METHYLATED SPIRITS****Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

**Incompatible materials**

Strong oxidising agents.

**Hazardous decomposition products**

Burning can produce carbon monoxide and/or carbon dioxide.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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|--|---|
| Acute toxicity:  | Low toxicity in animals -<br>LD50 Oral (rat) : 7060mg/kg<br>LC50 Inhalation (rat, 6h) : 5900mg/m <sup>3</sup>   |
| Skin corrosion/irritation:                                 | Mild irritant. Prolonged contact may cause defatting of skin which can lead to dermatitis.  |
| Serious eye damage/irritation:                             | Vapours may irritate the eyes. Liquid or mists may severely irritate or damage the eyes.  |
| Respiratory or skin sensitisation:                         | Not expected to be a sensitiser.  |
| Germ cell mutagenicity:                                    | Not expected to be mutagenic.   |
| Carcinogenicity:   | Not expected to be carcinogenic.  |
| Reproductive toxicity:                                     | Not expected to impair fertility.   |
| Specific Target Organ Toxicity (STOT) – single exposure:   | Data not available.   |
| Specific Target Organ Toxicity (STOT) – repeated exposure: | Long term exposure by swallowing or repeated inhalation, may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle. |
| Aspiration hazard:   | Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.  |

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Acute toxicity:

|                        |                        |
|------------------------|------------------------|
| Fish –                 | Expected to be harmful |
| Aquatic invertebrate – | Expected to be harmful |
| Algae –                | Expected to be toxic   |
| Microorganisms –       | Expected to be harmful |

Chronic toxicity:

|                        |                    |
|------------------------|--------------------|
| Fish –                 | Data not available |
| Aquatic invertebrate – | Data not available |
| Algae –                | Data not available |
| Microorganisms –       | Data not available |

**Persistence and degradability**

Biodegradable.

**Bioaccumulative potential**

Data not available.

**Product: METHYLATED SPIRITS**

**Mobility in soil**

Miscible with water.

**Other adverse effects**

Data not available.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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|  |         |
|--|---------|
| <b>UN number:</b>                                | 1170    |
| <b>Proper shipping name:</b>                     | Ethanol |
| <b>Australian Dangerous Goods class:</b>         | 3       |
| <b>Australian Dangerous Goods packing group:</b> | II      |
| <b>Hazchem code:</b>                             | •2YE    |

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**SECTION 15 REGULATORY INFORMATION**

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|   |        |
|---|--------|
| Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule: | 5      |
| Australian Inventory of Chemical Substances (AICS):                                     | Listed |
| Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):                        | 14     |

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**SECTION 16 OTHER INFORMATION**

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This MSDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Bracton Chemicals™ - A Division of SoSafe™ Specialty Products.

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