



# SAFETY DATA SHEET

## METHYLATED SPIRITS

Infosafe No.: CI03N  
APPROVED Date : 26/08/2022  
APPROVED by: CUSTOM CHEMICALS  
INTERNATIONAL PTY LTD

### 1. Identification

**GHS Product Identifier**

METHYLATED SPIRITS

**Product Code**

0051505 4L ; 0051501 20L

**Company name**

CUSTOM CHEMICALS INTERNATIONAL PTY LTD (ABN 73 050 537 674)

**Address**

103-107 Potassium Street Narangba  
QLD AUSTRALIA

**Telephone/Fax Number**

Tel: 07 3204 8300  
Fax: 07 3204 8311

**Emergency phone number**

13 1126 in Australia (AH)

**Recommended use of the chemical and restrictions on use**

Solvent, fuel, cleaning solvent

### 2. Hazard Identification

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Flammable Liquids: Category 2

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

Highly flammable liquid and vapour.

**Precautionary statement –General**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

**Pictogram (s)**

Flame

**Precautionary statement –Prevention**

Keep away from heat/sparks/open flames/hot surfaces. –No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement –Response**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
In case of fire: Use foam/water, spray/fog for extinction.

**Precautionary statement –Storage**

Store in a well-ventilated place. Keep cool.

**Precautionary statement –Disposal**

Dispose of contents/container to an approved waste facility..

### 3. Composition/information on ingredients

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**Ingredients**

Name	CAS	Proportion
Ethanol	64-17-5	>=95 %
Isopropyl alcohol	67-63-0	>=5 %

### 4. First-aid measures

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**First Aid Measures**

If poisoning occurs contact a doctor or Poisons Information Centre Phone Australia 131126, New Zealand 0800 764 766.

**Inhalation**

Remove victim from exposure if safe to do so. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume a comfortable position and keep warm. Seek medical advice if symptoms persist.

**Ingestion**

Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).

**Skin**

Wash skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation develops.

**Eye contact**

Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).

**First Aid Facilities**

Use should be made of an on-site approved first aid kit if required in the first instance until medical assistance is forthcoming. Potable water should be available to rinse eyes or skin.

### Advice to Doctor

Extreme care must be used to prevent aspiration. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.

## 5. Fire-fighting measures

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### Fire Fighting Measures

FLAMMABLE LIQUID AND VAPOUR

#### Suitable Extinguishing Media

Use extinguishing media appropriate to surrounding fire conditions. Use alcohol stable foam, water fog or fine water spray. Do not use water in a jet.

#### Hazards from Combustion Products

In use, may form flammable/explosive vapour air mixture. If involved in a fire will emit toxic fumes.

#### Special Protective Equipment for fire fighters

Fire fighters to wear full body protective clothing with breathing apparatus. Deluge with water to cool containers. Evacuate area move upwind of fire.

#### Specific Methods

Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear full protective clothing and a self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.

#### Specific Hazards Arising From The Chemical

May decompose on heating emitting toxic fumes such as carbon monoxide and/or carbon dioxide. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

#### Hazchem Code

Hazchem code •2YE

#### Other Information

Flash point ca. 13°C (Abel)

## 6. Accidental release measures

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### 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.

### Spills & Disposal

For small spills (< 200L), 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 (> 200L), 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.

### Personal Protection

Refer section 8 of this SDS.

### Environmental Precautions

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

## 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. Flame proof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills. Keep container tightly closed and in a well-ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas. Do not store near strong oxidants.

### Additional information on precautions for use

Always use clean and dry equipment to dispense the product. Dispensers should be cleaned before and after use. All dispensers should be washed out after use.

## 8. Exposure controls/personal protection

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### Exposure Controls, Personal Protection

Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

### Occupational exposure limit values

From Safe Work Australia -

Ethanol: 1880mg/m<sup>3</sup> (1000ppm) TWA (8hr)

Isopropyl Alcohol: 983mg/m<sup>3</sup> (400ppm) TWA (8hr), 1230mg/m<sup>3</sup> (500ppm) STEL

### Appropriate engineering controls

Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating and inhaling mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators. Keep containers closed when not in use.

### Respiratory Protection

Not required with adequate ventilation. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).

### Eye Protection

Not normally required. The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

### Hand Protection

Generally not required. Overalls, solvent-resistant gloves, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc

### Personal Protective Equipment

Overalls, solvent-resistant gloves, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.

## 9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	Colour	Colourless
Odour	Alcoholic	Boiling Point	ca. 78°C
Specific Gravity	0.79 - 0.81	pH	No data available
Flash Point	ca. 13°C	Flammability	Highly flammable
Melting/Freezing Point	ca. -117°C		

## 10. Stability and reactivity

### Chemical Stability

Stable under normal conditions of use.

### Conditions to Avoid

Heat, direct sunlight, open flames or other sources of ignition.

Avoid exposure to extreme pressure, heat, sparks, open flames and other ignition sources.

### Incompatible materials

Avoid reducing agents and strong oxidising agents.

### Hazardous Decomposition Products

Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide and other possibly toxic gases and vapours.

### Other Information

Store in a cool, dry place. Use only as directed. Store in accordance with directions given in Section 7 (Handling and storage) of this SDS.

## 11. Toxicological Information

### Toxicology Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects may arise if the product is mishandled and overexposure occurs.

### Acute Toxicity - Oral

Low toxicity in animals -

LD50 Oral (rat): 7060mg/kg

LC50 Inhalation (rat, 6h): 5900mg/m<sup>3</sup>

### Ingestion

If swallowed, the alcohol content will cause harmful central nervous system effects. Symptoms include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death. Severe, acute intoxication may cause hypoglycemia, hypothermia and extensor rigidity. Other effects may include decreased blood pressure, vomiting blood and blood discharges. Aspiration to the lungs may cause chemical pneumonitis. Long-term exposure by swallowing may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.

### Inhalation

Generated mists may be irritating to respiratory tract and mucous membranes. Inhalation of the vapour may result in headache, nausea and vomiting. High concentrations may cause central nervous system depression - symptoms outlined in 'Ingestion'. Long-term exposure by repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.

### Skin

Mildly irritating in contact with skin. Prolonged contact with concentrated solutions may cause irritation in certain individuals.

Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals.

### Eye

Eye contact with vapours may cause eye irritation, stinging, blurring, tearing. Liquid or mists may severely irritate or damage the eyes.

**Mutagenicity**

Not expected to be mutagenic.

**Respiratory sensitisation**

Not expected to be a sensitiser.

**Skin Sensitisation**

Not expected to be a sensitiser.

**Carcinogenicity**

The IARC has evaluated alcohol drinking as a Group 1 carcinogenic to humans.

Medical conditions aggravated by exposure Persons with pre-existing liver impairment, skin and respiratory disorders may be at an increased risk from exposure. Ethanol may also cause adverse reproductive effects. Concurrent absorption of ethanol and some drugs may cause adverse health effects. Ingestion of beverages containing ethanol by pregnant women is associated with 'foetal alcohol syndrome' in their babies.

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**12. Ecological information**

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**Ecotoxicity**

Expected to be harmful to aquatic life.

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**13. Disposal considerations**

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**Disposal considerations**

Refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. Do not put down the drain.

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**14. Transport information**

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**Transport Information**

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.

**U.N. Number**

1170

**UN proper shipping name**

ETHYL ALCOHOL SOLUTION

**Transport hazard class(es)**

3

**Packing Group**

II

**Hazchem Code**

Hazchem code •2YE

**IERG Number**

14

## 15. Regulatory information

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### Poisons Schedule

S5

### Australia (AICS)

All ingredients listed

## 16. Other Information

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### Date of preparation or last revision of SDS

SDS reviewed: Aug 2022, Supersedes: Aug 2017

### Other Information

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.

This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier

## END OF SDS

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