

SAFETY DATA SHEET

1. Product and Company Identification

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Product Name: **Methylated Spirits**
Product Code: 7569, 7570
Intended Use: Solvent, fuel, cleaning solvent
Chemical Nature: Mixture

2. Hazards Identification

Hazardous Chemical according to classification by Safe Work Australia
Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

GHS Classification: Flammable Liquid Category 2



GHS Signal Word: **DANGER**

Hazard Statement: 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.
 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

Response: 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.

Storage: PP403 + P235 Store in a well ventilated place. Keep cool.

Disposal: P501 Dispose of contents/container in accordance with local regulations.

3. Composition / Information on Ingredients

Ingredients Names and Proportions

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

4. First aid Measures

- In case of eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists transport to nearest medical facility for additional treatment.
- In case of skin contact: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available
- If Ingested: If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- If Inhaled: Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.

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 dried/cracked appearance. Prolonged contact may cause defatting of skin which can lead to dermatitis.
- Eyes: 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

5. Fire Fighting Measures

Suitable Extinguishing Media: Alcohol stable foam, water spray or fog. Dry chemical powder or 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 for fire fighters: Wear full protective clothing and self contained breathing apparatus. Hazchem code ●2YE

6. Accidental Release Measures

Personal Precautions: 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 of cleanup: For small spills (<1 drum), transfer by mechanical means to a labeled, 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.

7. Handling and Storage

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: Store in a well ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

8. Exposure Controls and Personal Protection

Exposure Control Measures: From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia – Ethanol: 1880mg/m³ (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.

Individual Protection Measures:

Eye and face protection: Wear safety goggles.

Skin protection: Use solvent resistant gloves, nitrile for longer term protection of PVC and neoprene for incidental splashes.

Respiratory protection: If work practices do not maintain airborne levels 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.

9. Physical and Chemical Properties

Appearance:	Colourless Liquid	Density (g/ml@15°C):	0.79 – 0.81
Odour:	Alcoholic	Solubility (kg/m ³):	miscible with water
Initial Boil point range:	78°C	Auto ignition temp (°C)	392
Flash point:	13°C (Abel)	Vapour Density:	1.59
Melting/Freezing Point:	-117 °C	(air=1 @ 15°C)	
Vapour pressure:	44	Upper/lower flammability:	3.5 – 19.0
(mmHg@20°C)		or explosive limits (%)	

10. Stability and Reactivity

Reactivity: Stable under normal conditions of use

Chemical Stability: Stable under normal conditions of use

Possible Hazardous reactions: Stable under normal conditions of use

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources

Incompatible materials: Strong oxidizing agents.

Hazardous Decomposition products: Burning can produce carbon monoxide and/or carbon dioxide.

11. Toxicological Information

Acute toxicity:	Low toxicity in animals- LD50 Oral (rat) > 7060 mg/kg LC50 Inhalation (rat, 6h) : 5900mg/m ³
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/mist 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 reproduction.
Specific Target Organ Toxicity (STOT) – single exposure:	No data 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.

12. Ecological Information

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

Mobility in soil

Miscible with water.

13 Disposal Considerations

Ensure waste disposal conforms to local waste disposal regulations.

14. Transport Information

UN number:	1170
Proper shipping name:	Ethanol
Australian Dangerous Goods class:	3
Australian Dangerous Goods packing group:	II
Hazchem code:	●2YE

15. Regulatory Information

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

16. Other Information

This SDS contains only safety related information. For other information see product literature.

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Sierra (Aust) Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.

