

"A Total Difference"

Material Safety Data Sheet

This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with National Standards and Guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC).

Classified as **Hazardous** according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

Methylated Spirits is classified as **Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Methylated Spirits

Other Names; Ethanol, Denatured Absolute Alcohol, Industrial Methylated Spirits

Supplier: **TOTAL CHEMICALS PTY LTD** Telephone: +61 07 3821 0333 ABN 26 038 108 730 Facsimile: +61 07 3821 2210

15 Production Street Internet www.totalchemicals.com.au Wacol Qld 4077 e-mail: www.totalchemicals.com.au info@totalchemicals.com.au

Major Uses and Methods of Application: Solvent for adhesives, coatings, resins and inks

2. COMPOSITION/INFORMATION ON INGREDIENTS

 CAS No.
 PROPORTION

 Ethanol (Ethyl alcohol)
 64-17-5
 70 - 100% v/v

 water
 7732-18-5
 0 - 35% w/w

 denaturant
 various
 <1% v/v</td>

3. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:

Classified as **Hazardous** according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

Methylated Spirits is classified as **Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Risk Phrases: R11 Highly Flammable

R20/22 Harmful by inhalation and if swallowed

R36/38 Irritating to eyes and skin

R66 Repeated exposure may cause skin dryness and cracking

4. FIRST AID MEASURES

If poisoning occurs contact a doctor or Poisons Information Centre. **Poisons Information Centre:** 13 11 26 (available in Australia only).

If signs of drunkeness are evident the serious health effects may follow (depending on amount swallowed). Immediate medical attention should be sought and the effected person transferred to the care of a doctor or hospital. Treat unconsciousness by placing the person in a coma position. Apply artificial respiration if breathing stops.

Swallowed: Give water to drink to dilute stomach contents and seek medical attention. Do

not attempt to induct vomiting or give anything by mouth to an unconscious

person. Seek medical attention

Eye: Flush with flowing water for at least 15 minutes, and if symptoms persist, seek

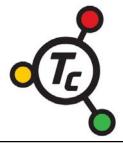
medical attention.

Skin: Flush skin with flowing water for at least 15 minutes. Remove contaminated

clothing and shoes. If irritation persists, seek medical attention Decontaminate

Product Name: Methylated Spirits

Issued: 5 November 2008 Version 1 Page 1 of 5



"A Total Difference"

4. FIRST AID MEASURES

If poisoning occurs contact a doctor or Poisons Information Centre. **Poisons Information Centre:** 13 11 26 (available in Australia only).

clothing before re-use or discard

Inhalation: Remove source of contamination or move person to fresh air. Give artificial

respiration if breathing has stopped. Seek medical attention

Advice to Doctor: Treat as for excess alcholic consumption. For advice on emergency treatment

of alcohol poisoning refer to standard texts on Emergency medicine

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards: Highly flammable liquid. May form flammable mixtures with air

Burns with a colourless flame. The vapour is heavier than air and may travel along the ground; distant ignition and flash back are possible. Run off to sewers and drains may cause explosions- Isolate for at least 800 metres in all directions if tanks or tankers are involved. The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard. All vessels must be earthed to avoid generation of static charges when agitating or transferring solvents. Avoid all ignition sources.

Use water to cool exposed containers. Spills and leaks may be washed with copious volumes of water, fog or spray. Fire fighters must wear self-contained breathing

apparatus with full facemask and protective clothing. Use water, dry chemical, carbon dioxide or alcohol stable foam

Hazardous decomposition

Products:

Burning can produce carbon monoxide and / or carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Spills:

Extinguish and do not turn on any ignition source - no smoking. Take precautionary measures against static discharges. Wear suitable protective equipment. Ensure area is well ventilated. Stop and contain the spill for salvage or absorb in inert absorbent material (e.g. soil, sand, vermiculite) for disposal by an approved method. Prevent run-off into drains and waterwaysUse water spray to disperse vapour. Wash the cleaned up area with copious volumes of water to remove any trace amounts of product. Ethanol mixes completely with water. Spills can be converted to non-flammable mixtures by dilution with water. Ventilate area well and ensure the atmosphere is safe before personnel return to the work area. If contamination of sewers or waterways has occurred, advise the local emergency services.

7. HANDLING AND STORAGE

Handling: Use in well ventilated areas away from all ignition sources. Intrinsically safe

equipment only must be used in area where this chemical is being used. The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard. Containers must be earthed to avoid generation of static charges when

agitating or transferring product

Storage: Store in tightly closed containers in a cool area separate from normal work areas and

incompatible materials. The storage area should have adequate ventilation and no sources of heat or sparks. Use in minimal quantities in designated areas away from heat or sparks. containers should be covered when not in use, and should be stored

in a grounded fire-resistant cabinet.

Empty containers retain residue (liquid and/or vapour) and are dangerous. Do not pressure cut, weld, braze, solder, drill, grind or expose such containers to heat, flame,

sparks, static electricity, or other sources of ignition

Product Name: Methylated Spirits

Issued: 5 November 2008 Version 1 Page 2 of 5



"A Total Difference"

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Worksafe Australia Exposure Standard [N0HSC:1003(1995)]:

Ethanol: 1,000 ppm (1,880 mg/ m³) TWA

TWA – Time-weighted average airborne concentration over an eight hour working day, for a five day working week over an entire working life.

Personal Protection:

Eye protection: Safety glasses, goggles or face shield as required

Hand Protection: PVC, neoprene or nitrile rubber gloves

Footwear: Rubber boots

Respiratory Protection: If airborne concentrations are likely to exceed the Exposure Standard, wear approved

organic vapour respiratory protection (AS/NZS 1715 and 1716). In high vapour

concentrations, wear an air-supplied hood.

Safety showers with eyewash should be provided in all areas where product is handled. No respiratory protection required if engineering, storage and handling

controls are adequate,

Engineering Controls: General (mechanical) room ventilation plus special local exhaust ventilation at points

where vapour could escape to the work environment. All ventilation equipment must

be fitted with flame and explosion proof electrical fittings.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colourless liquid

Boiling Point: 78°C

Vapour Pressure: 44 mm Hg @ 20°C

Specific Gravity: 0.78 @20°C Flash Point: 13°C (closed Cup)

Explosive Limits: LEL: 3.5%, UEL 19%

Solubility in water: soluble Volatiles by volume: 100%

10. STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage. Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Based on product data

Oral – LD50 (Rat); 7060 mg / kg (ethanol) Inhalation – LC50 (rat);38mg/l/ 10h (ethanol

Swallowed: Accidental swallowing unlikely under normal occupational use, but swallowing

ethanol may cause harmful central nervous system effects. Effects may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death. Severe acute intoxication may cause hypoglycaemia, hypothermia and extensor rigidity. Other effects may include decreased blood pressure, vomiting blood, and

blood changes. Aspiration into the lungs may cause pneumonitis.

Eye: Vapours may irritate the eyes. Liquid and mists may severely irritate or damage

the eyes.

Skin: Moderately irritating to the skin. Brief contact may cause redness. Repeated or

prolonged contact may lead to dermatitis with redness. Itching, swelling and possible secondary infection. A small proportion of people exposed to repeated

Product Name: Methylated Spirits

Issued: 5 November 2008 Version 1 Page 3 of 5



"A Total Difference"

11. TOXICOLOGICAL INFORMATION

skin contact might develop an allergic skin reaction.

Inhalation: Moderately irritating to respiratory tract and mucous membranes. Inhalation of the

vapour may result in headaches, nausea and vomiting. High concentrations may

cause central nervous system symptoms similar to "swallowed" above

Chronic: Repeated or prolonged contact may lead to dermatitis with redness, itching,

swelling and possible secondary infection. Chronic intoxication by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, hair, gastrointestinal tract and heart muscle. 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.

Note: The denaturants may be one or more of the following: diethyl phthalate, tertiary butyl alcohol, denatonium benzoate, methyl isobutyl ketone or fluorescein. The denaturants never exceed 1.0% of the final product and at this low concentration will not alter the safety of the product. Nasal and eye irritation usually occur at concentrations in air well below the Exposure Standard.

12. ECOLOGICAL INFORMATION

Ecotoxicity: (ethanol) Toxicity to fish (sacute) LC50 Golden ide > 1000 mg /l/48h

Toxicity to daphnia: EC50/Daphnia magna/: >1000 mg/l/24 h

Classed as biodegradable

Keep out of sewers, storm drains, surface waters and soil

13. DISPOSAL CONSIDERATIONS

For small spills or drips, wipe up and dispose in approved waste container. For large spills, contain and pump into waste containers for disposal by an approved method Keep out of sewers, storm drains, surface waters and soil

14. TRANSPORT INFORMATION

U.N. Number: 1170 Hazchem Code: 2[Y] E D. G Class: 3 Packaging Group: II

NOT TO BE STORED with explosives (Class 1), flammable gases in bulk (Class 2.1), poisonous gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidizing agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7). Exemptions may apply.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material

Risk Phrase: R11 Highly Flammable

R20/22 Harmful by inhalation and if swallowed

R36/38 Irritating to eyes and skin

R66 Repeated exposure may cause skin dryness and cracking

Safety Phrase: S7 Keep container tightly closed

S16 Keep away from sources of ignition - No smoking

S23 Do not breathe the vapour

S24/25 Avoid contact with skin and eyes

S29 Do not empty into drains

S33 Take precautionary measures against static discharges

S36/37/39 Wear suitable protective clothing / gloves and eye / face protection

Hazard Category: Highly Flammable

Poisons Schedule: S5 in containers < 5 litres volume

Product Name: Methylated Spirits

Issued: 5 November 2008 Version 1 Page 4 of 5



"A Total Difference"

16. OTHER INFORMATION	
For further information on this product, please contact:	
Contact:	Technical Manager
Telephone:	+61 07 3821 0333

This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with National standards and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The Supplier will issue a new MSDS when there is a change in product specifications and/or ASCC standards, codes, guidelines, or Regulations.

Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.

END OF MSDS

Product Name: Methylated Spirits

Issued: 5 November 2008 Version 1 Page 5 of 5