

MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of Workplace Australia

Date of issue February 2005

1. IDENTIFICATION

General

Product name: 100% Methylated Spirits
Other names: Methylated Spirits, Ethyl alcohol denatured
UN No.: 1170
Dangerous Goods Class: 3
Subsidiary Risk:
Hazchem Code: 2(Y)E
Pack Group: 11
EPG: 3A1
Poisons Schedule: S5
Uses: Solvent for resins, fats, fatty acids, oils and hydrocarbons.

2. Physical Description/ Properties

Appearance: Clear and transparent liquid with characteristic penetrating odour and taste.
Formula: 100%
Boiling Point: 78.3 °C
Melting Point: -117.3 °C
Vapour pressure: 58.1 mbar @ 20 °C
Specific Gravity: 0.860 (water=1)
Flash Point: 13 °C
pH: N/A
Solubility in water: Miscible.
Flammability limits (as percentage volume in air)
Lower explosion limit: 3.5%
Upper explosion limit: 15.0%

1.2 Other properties

Autoignition temperature = approx. 422 deg C.

1.3 Ingredients

Chemical entity	CAS No.	Proportions
Ethanol	64-17-5	90-100%
Water	7732-18-5	0-10%
Methanol	67-56-1	0-2.99%
Methyl isobutyl ketone	108-10-1	0-1%
Fluorescein sodium salt	518-47-8	0-0.10%
Denatonium Benzoate	3734-33-6	0-0.10%

2. HEALTH HAZARD INFORMATION

2.1 Health effects-Acute

Swallowed

May be harmful if swallowed. May cause nausea, gastric irritation, headache, dizziness and CNS depression.

Eye

May cause irritation and watering. High concentrations of vapours may cause irritation.

Skin

May cause irritation. Will have a degreasing action on the skin.

Inhaled

May be harmful by inhalation. Irritating to the mucous membranes and respiratory tract. May cause headaches, dizziness, nausea and possible CNS effects.

2.2 Health effects-Chronic

Repeated or prolonged skin contact may cause chronic dermatitis. May cause liver and kidney disorders.

2.3 First Aid

Swallowed

Rinse mouth thoroughly with water immediately. Give plenty of water to drink and induce vomiting. Use fingers in the throat, Ipecac Syrup (APF) or similar emetic. Seek immediate medical assistance. Seek immediate medical assistance.

Eye

Flush eyes with copious amounts of clean water for at least 15 minutes, retract eyelids often.

Skin

Wash affected areas thoroughly with copious amounts of clean water. If irritation occurs seek medical attention immediately.

Inhaled

Remove victim to fresh air. If difficulty in breathing or irritation occurs see medical attention immediately.

2.5 Advice to doctor

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

3. PRECAUTIONS FOR USE

3.1 Exposure standards

Name	TWA		STEL	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Ethanol	1000	1880		
Methanol	200	262	250	328

3.2 Engineering controls

Provide general exhaust ventilation to keep exposure levels to a minimum.

3.3 Personal protection

Ensure an eye bath and safety shower are available and ready for use.

Wear protective equipment to minimise exposure.

3.4 Flammability

Material is flammable. Keep away from sources of ignition.

NO SMOKING. Ventilate usage to prevent build up of flammable vapours.

SAFE HANDLING INFORMATION

4.1 Storage/Transport

Store in a cool place. Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Store away from strong acids. Keep containers closed at all times. Keep containers securely sealed and protected against physical damage. Do not store in pits or basements where vapours may become entrapped. Do not store in aluminium containers.

Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following: Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane, Class 7.

4.2 Packaging/Labelling

UN No.	1170
Class	3
Sub Risk	
Hazchem Code	2(Y)E
Pack Group	11
EPG Group	3A1
Shipping name	100% Methylated Spirits

4.1 Spills and Disposals

Spills

Eliminate all flammables (NO SMOKING). Contain and absorb diatomaceous earth.

Disposal

Dispose in accordance with all Local, State and Federal regulations by incineration at an approved waste disposal site.

4.4 FIRE AND EXPLOSION HAZARD

Fire/Explosion

HIGHLY FLAMMABLE: These products have a low flash point. Will be easily ignited by heat, sparks or flames. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire will produce irritating, poisonous and/or corrosive gases. Vapours from run-off may create an explosion hazard.

Extinguishing Media

Caution: Use of water spray when fighting fire may be inefficient. Procedures Small fire: Use foam, dry chemical, CO₂ or water spray. Large fire: Use foam, fog or water spray - Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

5.1 Contact points

Organisation	Location	Telephone	Ask for
Langridge Artist Colours	Yarraville, Victoria	(03) 9689 0577	Mr. D. Coles