



# Material Safety Data Sheet

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 3. COMPOSITION INFORMATION

CHEMICAL	ENTITY CAS NO.	PROPORTION
Mineral Turpentine	-	30-60%
d-Limonene	5989-27-5	10-29%
Xylene	1330-20-7	10-29%
2-Butoxyethanol	111-76-2	<10%
Non hazardous ingredients	-	<10%
		100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin contact:** For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Get to a doctor or hospital quickly.

**Notes to physician:** Treat symptomatically and as for exposure to hydrocarbon solvents. Do not give epinephine or related drugs. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and respiratory depression may be needed. Aspiration into the lungs can result in chemical pneumonitis.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Flammable liquid. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

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**Fire fighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Hazchem Code:** 3[Y]

**Suitable extinguishing media:** If material is involved in a fire use foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

### LARGE SPILLS

Shut off all possible sources of ignition. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labeled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** 14

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

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However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Mineral Turpentine	-	480	-	-	-	-
Xylene	80	350	150	655	-	-
2-Butoxyethanol	25	121	-	-	-	-

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

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

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber or polyvinyl alcohol (PVA) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** White liquid with aromatic odour.

**Solubility:** Negligible in water.  
**Specific Gravity (20 °C):** N Av  
**Relative Vapour Density (air=1):** N Av

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Vapour Pressure (20 °C):	N Av
Flash Point:	N Av
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	N Av
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
pH:	N App
Viscosity:	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical stability:** No information available.

**Conditions to avoid:** No information available.

**Incompatible Materials:** Oxidising agents and acid catalysts.

**Hazardous decomposition products:** No information available.

**Hazardous reactions:** This material will not undergo polymerisation.

## 11. TOXICOLOGICAL 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 that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Skin contact:** Contact with skin will result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. A component of this material (2-butoxy ethanol) can be absorbed through the skin with resultant toxic effects.

**Eye contact:** A severe eye irritant.

**Ingestion:** Swallowing can result in nausea, vomiting diarrhoea and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications. Aspiration into lungs can result in pulmonary oedema and chemical pneumonia.

**Long Term Effects:** No information available for product.

### Acute toxicity / Chronic toxicity

No LD50 data available for the product. However, for the constituent:

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## Xylene:

Oral LD50 (rat):	4300 mg/kg
Inhalation LC50 (rat):	5000 ppm/4 Hrs
SKIN (rabbit):	Moderate irritant
EYES (rabbit):	Severe irritant

In two year gavage studies there was no evidence of carcinogenicity for male and female F344/N rats given 250 or 500 mg/kg or for male and female B6C3F1 mice given 500 or 1000 mg/kg (3).

## d-Limonene

Oral LD50 (rat):	4400 mg/kg
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d-Limonene has been shown to cause a male rat-specific kidney toxicity. It is not carcinogenic in female rats or male and female mice given much higher doses. The scientific data base demonstrates that the tumourigenic activity of d-limonene in male rats is not relevant to humans.

Both d-limonene and cis-d-limonene-1,2-oxide (the major metabolite involved in the male rat-specific nephrocarcinogenicity) are negative in IN VITRO mutagenicity screens.

Skin sensitiser (guineapig): Possitive

## Mineral turpentine

Oral LD50(rat):	>2000 mg/kg
Dermal LD50(rabbit):	>2000 mg/kg

Negative in a series of genetic toxicity assays.

Male rats exposed to similar materials for 13 weeks developed degenerative effects in the kidneys. These effects are not considered relevant to humans.

No teratogenic effects were observed in rats exposed to 400 ppm of similar substances.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

### Ecotoxicity:

#### Mineral Turpentine

Harmful to aquatic organisms.

May cause long term adverse effects in the aquatic environment.

#### 2-Butoxyethanol

24hr LC50 (goldfish):	1,540 mg/L
7 day LC50 (guppy):	983 ppm

### Persistence and degradability:

#### 2-Butoxyethanol

The product is readily biodegradable.

BOD (bichemical Oxygen Demand): 75%

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**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority. Advise flammable nature.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

**UN No:** 1993  
**Dangerous Goods Class:** 3  
**Packing Group:** III  
**Hazchem Code:** 3[Y]  
**Emergency Response Guide No:** 14

**Proper Shipping Name:** FLAMMABLE LIQUID N.O.S. (contains MINERAL TURPENTINE & XYLENE)

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1993  
**Dangerous Goods Class:** 3  
**Packing Group:** III

**Proper Shipping Name:** FLAMMABLE LIQUID N.O.S. (contains MINERAL TURPENTINE & XYLENE)

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1993  
**Dangerous Goods Class:** 3  
**Packing Group:** III

**Proper Shipping Name:** FLAMMABLE LIQUID N.O.S. (contains MINERAL TURPENTINE & XYLENE)

## 15. REGULATORY INFORMATION

**Poisons Schedule (Aust):** S5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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## 16. OTHER INFORMATION

### Literary reference

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client.

For further information about this product;

Telephone: +613 9238-9888

Reason(s) For Issue: Admin Changes

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Waproo Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS 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 company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.