



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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### Product Name: XYLENE SOLVENT GRADE

Company: Recochem Inc. ABN: 69 010 485 999  
Address : 1809 Lytton Road, Lytton, Queensland 4178  
Phone: (07) 3308 5200 Fax: (07) 3308 5201  
Emergency Telephone Number: (07) 3308 5200 Day, After Hours 1300 131 001

Other Names: Xylol, Dimethyl benzene  
Manufacturer's Product Code: 16031  
Recommended Use: Solvent, raw material for chemical industry

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## SECTION 2 HAZARDS IDENTIFICATION

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**CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA  
DANGEROUS ACCORDING TO THE CRITERIA OF THE ADG CODE**

**Symbols:** Xn Harmful  
**Risk Phrases:** R11 Flammable  
R20/21 - Harmful by inhalation and in contact with skin  
R38 - Irritating to skin  
**Safety Phrases:** S2 Keep out of the reach of children  
S16 Keep away from sources of ignition - No smoking  
S24/25 Avoid contact with skin and eyes  
S29 Do not empty into drains

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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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### INGREDIENTS

<i>Chemical Entity</i>	<i>CAS Number</i>	<i>Proportion (%)</i>
Ethyl Benzene	100-41-4	30-60
Xylene	1330-20-7	30-60

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## SECTION 4 FIRST AID MEASURES

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### FIRST AID TREATMENT

**Swallowed:** 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.

**Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Transport to nearest medical facility for additional treatment.

**Skin:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for treatment.

**Inhaled:** Keep victim calm and remove to fresh air if safe to do so. Obtain medical treatment immediately.

**First Aid facilities:** Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

**Advice to Doctor:** Treat symptomatically.

**Additional Information:** None available.

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## SECTION 5 FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media:** Foam, water spray or fog. Dry chemical powder, carbon dioxide.

Do not use water in a jet.

**Hazards from combustion products:** Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible.

**Product: XYLENE SOLVENT GRADE**

**Precautions for Fire Fighters and Special Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

**Additional Information:** Hazchem code 3[Y]E

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

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Observe all local and national regulations

**Spills and Disposal:** Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Remove all sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

**Methods and Materials for Containment and Clean Up Procedures:** For small spills (<1 drum), 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 (> 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.

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## SECTION 7 HANDLING AND STORAGE

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**Precautions for Safe Handling and Storage:** Avoid breathing of or contact with material. Use in well ventilated areas. Wash thoroughly after handling. Avoid contact with skin and eyes and clothing. Handle open containers in 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. Do not empty into drains.

Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidants.

**Dispensing:** Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

**Flammability:** Highly flammable

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## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure Standards:** Worksafe Australia has set an exposure standard 350mg/m<sup>3</sup> (80ppm) TWA (8hr), 655mg/m<sup>3</sup> (150ppm) STEL for xylene and 434mg/m<sup>3</sup> (100ppm) TWA (8hr), 543mg/m<sup>3</sup> (125ppm) STEL for ethylbenzene.

**Biological Limit Values:** No biological limit allocated

### **Personal Protective Equipment:**

**Respiratory Protection:** If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter and select a filter for organic gases and vapours (boiling point > 65 Deg C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

**Hand Protection:** Use solvent resistant gloves. Nitrile for longer term protection or PVC and neoprene for incidental splashes.

**Eye Protection:** Wear safety Goggles.

**Protective Clothing:** Use chemical resistant glove/gauntlets, boots and apron.

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists. Keep containers closed when not in use.

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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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### PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance	Colourless Liquid
Odour	Aromatic - odour threshold 0.27ppm
pH:	N/A
Vapour Pressure (mmHg @ 20°C):	Typical 0.8-1.2 kPa
Vapour Density (air = 1)	3.7
Boiling Point (°C):	136-145
Freezing/Melting Point (°C):	-35

**Product: XYLENE SOLVENT GRADE**

Solubility in Water	0.2 kg/m <sup>3</sup>
Specific Gravity (g/ml @ 15°C):	0.87
Flashpoint (°C):	27 (Abel)
Flammability Limits (%):	1 – 7.1
Auto Ignition Temperature (°C):	Typical 432-530
Percent Volatiles	100

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**SECTION 10 STABILITY AND REACTIVITY**

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**Chemical Stability:** Stable under normal conditions of use.

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

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:** Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**HEALTH EFFECTS**

*Acute:*

**Swallowed:** Expected to be of low toxicity: LD50>2000mg/kg, Rat. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

**Eye:** Irritating to eyes.

**Skin:** Irritating to skin.

**Inhaled:** Low toxicity – LC50>20mg/l 4 hours, Rat. Inhalation of vapours or mists may cause irritation to the respiratory system. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

**Chronic:** Central nervous system: repeated exposure affects the nervous system.

Liver: can cause liver damage.

Kidney: can cause kidney damage.

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**SECTION 12 ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

Fish : Toxic 1<LC/EC/IC50 <= 10mg/l

Aquatic Invertebrates : Toxic 1<LC/EC/IC50 <= 10mg/l

Algae : Toxic 1<LC/EC/IC50 <= 10mg/l

Mobility : Floats on water, highly mobile and may contaminate groundwater.

Persistence/degradability : Readily Biodegradable. Oxidises by photo-chemical reactions in air.

Bioaccumulation : Does not bioaccumulate significantly

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Disposal Methods:** Ensure waste disposal conforms to local waste disposal regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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UN Number:	1307	Proper Shipping Name:	XYLENES
Class:	3	Subsidiary Risk:	None allocated
Packing Group:	III	Hazchem Code:	3[Y]E
Special Precautions for User:	None		

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**SECTION 15 REGULATORY INFORMATION**

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Poisons Schedule : 6

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SA HB76:2004) : 16

**Product: XYLENE SOLVENT GRADE**

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**SECTION 16 OTHER INFORMATION**

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Further Information may be obtained by contacting Recochem on (07) 3308 5200

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

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