

# Material Safety Data Sheet

X3B

**Infosafe™** LPX93      **Issue**    September      **Status** ISSUED by      **BS:**  
**No.**                      **Date**            2010                      OILCHEM                      1.10.9

**Classified as hazardous according to criteria of NOHSC**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name**    X3B

**Company Name**    Oilchem Pty Ltd

**Address**            55-57 Miller Road Epping  
Victoria 3076

**Emergency Tel.** 1800 638 556 24 hr

**Telephone/Fax**    Tel: (03) 9401-3377  
**Number**            Fax: (03) 9401-4657

**Recommended**      **Use**                    Industrial Solvent.

**Other Names**        Not Available

**Additional**            Telephone : +61 1300 669988  
**Information**         Fax : +61 1300 669987

Local Contact  
Telephone : 1300 669988  
Fax : 1300 669987

Emergency Telephone Number : 1800 651 818 (24 hours) /  
(International) +61 3 8823 3095

## 2. HAZARDS IDENTIFICATION

**Hazard**                HAZARDOUS SUBSTANCE.

**Classification**    DANGEROUS GOODS.

Hazard classification according to the criteria of  
NOHSC.

Dangerous goods classification according to the

Australia Dangerous Goods Code.

**Risk Phrase(s)** R11 Highly flammable.  
R37 Irritating to respiratory system.  
R38 Irritating to skin.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrase(s)** S23 Do not breathe vapour.  
S24 Avoid contact with skin.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
S36/37 Wear suitable protective clothing and gloves.  
S 2 Keep out of the reach of children.

**Signs and Symptoms of Exposure** Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Auditory system effects may include temporary hearing loss and/or ringing in the ears. Visual system disturbances may be evidenced by decreases in the ability to discriminate between colours. Heart damage may be evidenced by shortness of breath and, in severe cases, by collapse (cardiac arrest).

**Safety Hazards** Flammable. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. In use, may form flammable/explosive vapour-air mixture.

**Environmental Hazards** Toxic to aquatic organisms.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Information on Composition** Material Formal Name : Solvent naphtha (petroleum), light aromatic  
CAS No. : 64742-95-6  
INDEX No. : 649-356-00-4

EINECS No. : 265-199-0

Hazardous Components  
Chemical Name EINECS Symbol(s) R-phrase(s)  
Toluene 203-625-9 F, Xn R11; R38;  
R48/20;  
R63; R65;  
R67

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	TOLUENE	108-88-3	>= 30.00 - < 50.00%W

**Other Information** Additional Information : Refer to chapter 16 for full text of EC R-phrases.

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#### 4. FIRST AID MEASURES

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**Inhalation** Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Ingestion** 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.

**Skin** Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

**Eye** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**Advice to Doctor** Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal. Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider: oxygen therapy. Call a doctor or poison control center for guidance.

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#### 5. FIRE FIGHTING MEASURES

**Fire Fighting Measures** Clear fire area of all non-emergency personnel.

**Suitable Extinguishing Media** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

**Special** Protective Equipment for Firefighters: Wear full

<b>Protective Equipment for fire fighters</b>	protective clothing and self-contained breathing apparatus.
<b>Specific Hazards</b>	Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
<b>Hazchem Code</b>	3YE
<b>Unsuitable Extinguishing Media</b>	Do not use water in a jet.
<b>Other Information</b>	Additional Advice : Keep adjacent containers cool by spraying with water.  Hazchem Code : 3YE - For fire fighting, use foam (alcohol resistant foam may be required). Risk of explosion. Breathing apparatus, firefighting gear and chemically impervious protective gloves should be worn. Prevent spillage from entering drains or watercourses. Evacuation of people from the neighbourhood of an incident should be considered.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Observe all relevant local and international regulations.
<b>Personal Protection</b>	Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by 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. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
<b>Clean-up Methods - Small Spillages</b>	For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
<b>Clean-up</b>	For large liquid spills (> 1 drum), transfer by

**Methods - Large Spillages** mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

**Other Information** Additional Advice : See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapour may form an explosive mixture with air.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling** Avoid contact with skin, eyes, and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Handle and open container with care in a wellventilated area. Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains.

**Conditions for Safe Storage** Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Storage Temperature: Ambient.

**Product Transfer** Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve.

**Recommended Materials** For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.

**Unsuitable Materials** Avoid prolonged contact with natural, butyl or nitrile rubbers.

**Additional** General Precautions : Avoid breathing vapours or

**information on precautions for use** contact with material. Only use in well ventilated areas. Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**Other Information** Container Advice : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Additional Information : Ensure that all local regulations regarding handling and storage facilities are followed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Controls, Personal Protection** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

**National Exposure Standards** Occupational Exposure Limits  
In the absence of occupational exposure standards for this product, it is recommended that the following are adopted.

Material Source Type mg/m<sup>3</sup>  
RCP HSPA OELs TWA (8 h) 350 mg/m<sup>3</sup>  
Mineral  
spirits 150 -  
200

Additional Information : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Biological Exposure Index (BEI) - See reference for full details  
Material Determinant Sampling time BEI Reference  
Toluene o-Cresol in urine End of shift 0.5 mg/l ACGIH (2003)  
Hippuric acid in urine End of shift 1.6 g/g creatinine ACGIH (2003)  
toluene in Blood Sampling time: 0.02 mg/l ACGIH BEL Prior to last (01 2010) shift of work week.  
o-Cresol, with Sampling time: 0.3 mg/g ACGIH BEL hydrolysis in End of shift. (01 2010)  
Creatinine in urine

toluene in Urine Sampling time: 0.03 mg/l ACGIH BEL  
End of shift. (01 2010)

**Respiratory Protection** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Where airfiltering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN141. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

**Eye Protection** Monogoggles (EN166)

**Hand Protection** Longer term protection: Nitrile rubber gloves  
Incidental contact/Splash protection: PVC or neoprene rubber gloves  
Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Personal Protective Equipment** The following information, while appropriate for the product is general in nature. The selection of Personal Protective Equipment will vary depending on the conditions of use.

**Body Protection** Chemical resistant gloves/gauntlets, boots, and apron. Skin protection not ordinarily required beyond standard issue work clothes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** Colourless Liquid.

**Odour** Aromatic

**Melting Point** Data not available.

**Freezing Point** Data not available.

**Boiling Point** Typical 95 - 138 °C / 203 - 280 °F

**Solubility in Water** Negligible.

**Solubility in Organic Solvents** Data not available.

**Specific Gravity** Data not available.

**pH Value** Not applicable.

**Vapour Pressure** Data not available.

**Vapour Density (Air=1)** Data not available.

**Density** Typical 0.780 - 0.810 kg/l (ASTM D-4052)

**Flash Point** -1 °C / 30 °F (Abel)

**Auto-Ignition Temperature** Data not available.

**Flammable Limits - Lower** Data not available.

**Flammable Limits - Upper** Data not available.

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## 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 dependent on conditions. A complex mixture of airborne solids, liquids and 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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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information** Repeated Dose Toxicity  
Central nervous system: repeated exposure affects the nervous system. Effects were seen at high doses only.  
Kidney: caused kidney effects in male rats which are not considered relevant to humans  
Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. (Toluene)  
Visual system: may cause decreased color perception. These subtle changes have not been found to lead to functional colour vision deficits. (Toluene)  
Respiratory system: repeated exposure affects the respiratory system. Effects were seen at high doses only. (Toluene)

**Health Hazard** Possible risk of harm to the unborn child. Harmful:



danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Slightly irritating to respiratory system. Irritating to skin. Moderately irritating to eyes. Harmful: may cause lung damage if swallowed. Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Central nervous system (CNS). Auditory system. Visual system. Respiratory system.

<b>Reproductive Toxicity</b>	Causes foetotoxicity in animals at doses which are maternally toxic. Not expected to impair fertility.
<b>Mutagenicity</b>	Not expected to be mutagenic.
<b>Carcinogenicity</b>	An increased tumour incidence has been observed in experimental animals; the significance of this finding to man is unknown. (Ethylbenzene)
<b>Basis for Assessment</b>	Information given is based on product testing, and/or similar products, and/or components.
<b>Acute Toxicity - Oral</b>	Expected to be of low toxicity: LD50 >2000 mg/kg , Rat Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
<b>Acute Toxicity - Dermal</b>	Expected to be of low toxicity, LD50 > 2000 mg/kg. , Rat
<b>Acute Toxicity - Inhalation</b>	Expected to be of low toxicity: LC50 >20 mg/l / 4 hours, Rat May be harmful if inhaled. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
<b>Eye Irritation</b>	Expected to be moderately irritating to eyes. (Toluene)
<b>Skin Irritation</b>	Irritating to skin. (Toluene)
<b>Respiratory Irritation</b>	Inhalation of vapours or mists may cause irritation to the respiratory system.
<b>Skin Sensitisation</b>	Not expected to be a skin sensitiser.
<b>Other Information</b>	Additional Information : Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

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## 12. ECOLOGICAL INFORMATION

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**Persistence / Degradability** Expected to be readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

**Mobility** Floats on water.  
Adsorbs to soil and has low mobility.

**Bioaccumulative Potential** Has the potential to bioaccumulate.

**Acute Toxicity - Fish** Expected to be toxic:  $1 < LC/EC/IC50 \leq 10$  mg/l

**Acute Toxicity - Algae** Expected to be toxic:  $1 < LC/EC/IC50 \leq 10$  mg/l

**Acute Toxicity - Other Organisms** Aquatic Invertebrates : Expected to be toxic:  $1 < LC/EC/IC50 \leq 10$  mg/l  
Microorganisms : Expected to have low toxicity:  $LC/EC/IC50 > 100$  mg/l

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### 13. DISPOSAL CONSIDERATIONS

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**Product Disposal** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

**Container Disposal** Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

**Local Legislation** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

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### 14. TRANSPORT INFORMATION

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**Transport Information** ADG  
UN number: 1268  
Proper shipping name: PETROLEUM DISTILLATES, N.O.S. (HYDROCARBON MIXTURE.)  
Class: 3  
Packing group: II  
Hazchem Code: 3YE

IMDG  
Identification number: UN 1268  
Proper shipping name: PETROLEUM DISTILLATES, N.O.S.

Technical name: (PETROLEUM NAPHTHA)  
Class / Division: 3  
Packing group: II  
Marine pollutant: Yes (PETROLEUM NAPHTHA)

IATA (Country variations may apply)  
UN No. : 1268  
Proper shipping name : Petroleum distillates, n.o.s.  
Class / Division : 3  
Packing group : II

**U.N. Number** 1268

**Proper Shipping Name** PETROLEUM DISTILLATES, N.O.S.

**DG Class** 3

**Hazchem Code** 3YE

**Packing Group** II

**EPG Number** 3A1

**IERG Number** 14

## 15. REGULATORY INFORMATION

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

Chemical Inventory Status  
INV (CN) : Listed.  
EINECS :Listed. 265-199-0  
KECI (KR) : Listed. KE-31662

Other Information : 94/69/EC (21st ATP). The benzene content of this product is less than 0.1%. Nota P applies. Classification and labelling as carcinogen (R45) is not required.

**Poisons Schedule** S5

**Symbol** F Highly flammable.  
Xn Harmful.  
N Dangerous for the environment.

**Hazard Category** Harmful, Irritant, Highly Flammable, Dangerous for the environment

**TSCA (USA)** Listed.

**AICS (Australia)** Listed.

**DSL (Canada)** Listed.

**PICCS**  
**(Philippines)** Listed.

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## 16. OTHER INFORMATION

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**Uses and Restrictions** Industrial Solvent.

**Revisions Highlighted** MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.

**Other Information** Version 5.

R-phrase(s)  
R11 Highly flammable.  
R37 Irritating to respiratory system.  
R38 Irritating to skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: May cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.

MSDS Version Number : 5.

MSDS Distribution : The information in this document should be made available to all who may handle the product

This MSDS has been transcribed into Infosafe NOHSC format from an original issued by the manufacturer on the date shown. Any disclaimer by the manufacturer may not be included in the transcription.

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End of MSDS

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