

SAFETY DATA SHEET



PHOENIX®

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Revision No: 3.0

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PX SOLVENT B1

Code : SOLVENTB1
Proper Shipping Name : Heptanes
Use : Solvent

Name : Phoenix Lubricants Pty Ltd (ABN 41 820 770 617)
Address : 2 Paul Court, Dandenong Vic 3175
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2. HAZARD IDENTIFICATION

CLASSIFIED AS A HAZARDOUS CHEMICAL ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

Hazard Class and Category:
Flammable Liquids Category 2
Skin Corrosion/Irritation Category 2
Specific Target Organ Toxicity (Repeated Exposure) Category 1
Specific Target Organ Toxicity (Single Exposure) Category 3
Aspiration Hazard Category 1

Signal Word:

DANGER

GHS Pictograms:



Hazard Statements:

H225: Highly flammable liquid and vapour
H315: Causes skin irritation
H372: Causes damage to organs through prolonged or repeated exposure
H304: May be fatal if swallowed and enters airways
H336: May cause drowsiness or dizziness
AUH066: Repeated exposure may cause skin dryness or cracking

Precautionary Statements:

P403+P235: Store in a well ventilated place. Keep cool.
P233: Keep container tightly closed.
P405: Store locked up.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves and eye protection.

2. HAZARD IDENTIFICATION (CONT.)

P264: Wash hands thoroughly after handling.

P260: Do not breathe mist/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

P370+378: In case of fire: Use sand, earth, or chemical foam to extinguish.

P303+P361+P352: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P301+P310+P331+P101: IF SWALLOWED: Immediately call a POISON CENTER/doctor, if you feel unwell, and have product container or label at hand. Do not induce vomiting.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P501: Dispose of contents and container as hazardous waste.

Poison Schedule : 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:

Component	CAS No.	Conc, %
Isoheptanes	31394-54-4	<85
Heptane and Isomers	Various	15-20 %
Isohexanes	73513-42-5	<15
Other ingredients not classified as hazardous chemicals according to Safe Work Australia Criteria		

4. FIRST AID MEASURES

REMOVE FROM EXPOSURE IF SAFE TO DO SO

- Swallowed** : *Unlikely exposure route*
- Do not induce vomiting
 - Keep at rest.
 - Seek immediate medical attention
- Eye** :
- Hold eye open
 - Irrigate with water until irritation subsides (at least 15 minutes)
 - Seek immediate medical attention
- Skin** :
- Flush area with large amounts of water
 - Wash skin with soap and water
 - Remove contaminated clothing, and wash before reuse
 - Seek medical attention if skin irritation occurs
- Inhalation** :
- Remove from exposure if safe to enter area
 - Loosen/remove clothing
 - Move to fresh air
 - Administer artificial respiration if breathing has stopped
 - Seek immediate medical attention

ADVICE TO DOCTOR

- Avoid gastric lavage: risk of aspiration of product to the lungs with potential to cause chemical pneumonitis.
- Treat according to symptoms

**AUSTRALIAN POISONS INFORMATION CENTRE
24 HOUR SERVICE 13 11 26**

**NEW ZEALAND POISONS INFORMATION CENTRE
24 HOUR SERVICE 0800 764 766**

5. FIRE FIGHTING MEASURES

- Hazchem Code : 3YE
Flash point : -15°C
- Fire & Explosive Properties : Highly flammable and explosion hazard
- Suitable Extinguishing Media : Suitable extinguishing media are dry chemical or foam.
- Hazards from Combustion Products : Product is a mobile liquid. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low lying spaces forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product may be toxic if inhaled. (Carbon dioxide and carbon monoxide)
- Precautions for Fire Fighters - Special Equipment :
 - Positive pressure self-contained breathing apparatus (SCBA) and protective suit
 - Protective fire fighting clothing

6. ACCIDENTAL RELEASE MEASURES

- Spills or Leaks :
 - Restrict access to area until clean-up is completed
 - Wear PPE as per this MSDS
 - Absorb / contain waste, use earth, vermiculite, iner material
 - If there is a build up of vapours or mist in the clear up area, we recommend the use of a respirator.
 - Collect and seal in appropriate container
 - Label the container
 - Create bund
 - Do not contaminate surface waters - depletion of oxygen in the water will occur.
 - Observe regulatory reporting requirements (Incident Notification)
 - Protect drains from potential spills to minimise contamination. In the case of large spills contact the appropriate authorities.
- Disposal :
 - Dispose of in accordance with States, Local Government, EPA or related Regulations or Codes of Practice.

7. HANDLING AND STORAGE

- Precautions for Safe Handling :
 - Eye wash and safety shower to be available in the workplace.
 - Wear PPE as per this SDS
 - Compliant eyewash to be provided for external work.
 - Observe good personal hygiene practices.
 - Wash hands thoroughly after handling.
 - Avoid contact with skin and eyes.
 - Use only in well ventilated areas. Ensure Exposure Standards are not exceeded
 - Wear respiratory protection if vapours present.
 - Product is flammable, avoid sources of heat or ignition when handling
 - No eating or drinking in the work area.
 - Use grounding leads to avoid discharge (electrical spark)
- Conditions for Safe Storage :
 - Store away from food, drink and animal feedstuffs.
 - Store away from oxidising agents.
 - Provide ventilation and containment of spills.
 - Separate or segregate from incompatibles (in accordance with regulatory requirements).
 - Avoid direct sunlight.
 - Keep protected from weather.

**HAZCHEM
Emergency
Action Code**

FOR FIRE OR SPILLAGE

1 **COARSE SPRAY**

2 **FINE SPRAY**

3 **FOAM NORMAL PROTEIN**

4 **DRY AGENT**

• **ALCOHOL RESISTANT**

P	V	LTS	DILUTE
R			
S	V	BA & FIRE KIT	CONTAIN
T			
W	V	LTS	CONTAIN
X			
Y	V	BA & FIRE KIT	CONTAIN
Z			

E PUBLIC SAFETY HAZARD

* SEE LEGEND OVER

LEGEND

DRY AGENT
Do not use water

ALCOHOL RESISTANT FOAM *2 OR *3
When * appears in front of 2 or 3 in Hazchem code use alcohol resistant foam if available

V
Substances can be violently or even explosively reactive, including combustion

LTS
Liquid-Tight Chemical Protective Suit with BA. Full FIRE KIT to also be worn for protection when:
Liquid Oxygen
• Liquefied Toxic Gas (Division 2.3)
• Toxic Gas with sub-risk 2.1 or 5.1
• Class or sub-risk 3
• Division 5.1 (PG) with sub-risk 6.1 or 8 transported at temperature > 100°C
are involved

DILUTE
May be washed to drains with large quantities of water, consider EPA or Water Authority

CONTAIN
Prevent, by any means available, spillage from entering drains or water courses

E
People to be warned to stay indoors with all doors and windows closed. Evacuation may need to be considered. Joint Incident Control decision



7. HANDLING AND STORAGE (CONT.)

- Container Type** :
 • Provide spill kit.
 • Store in original packaging as approved by manufacturer or regulatory direction. Do not pressurise, cut, heat or weld containers- residual vapours are flammable.
- Incompatible Materials** :
 • Natural Rubber, Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONSTITUENT DATA

Components	CAS-No.	Type	Value
isohexanes	73513-42-5	TWA	500 ppm / 1760 mg/m ³
		STEL	1000 ppm / 3500 mg/m ³
Isoheptanes (based on heptane)	31394-54-4	TWA	400 ppm / 1640 mg/m ³
		STEL	500 ppm / 3500 mg/m ³

ENGINEERING CONTROLS

- Provide local exhaust when exposure standards might be exceeded.
- Use explosion-proof ventilation equipment

PERSONAL PROTECTION

- Eye Protection** : Wear chemical splash goggles or face shield in accordance with **AS/NZS1337, Eye protection for industrial applications.**
- Gloves** : Wear chemical protective gloves (eg nitrile) in accordance with **AS/NZS 2161.1 - Occupational protective gloves, selection, use and maintenance** where contact may occur.
- Clothing** : Wear body protective clothing and industrial footwear in accordance with **AS2919 - Industrial clothing.**
- Respiration** : If ventilation is inadequate, wear an approved organic vapour respirator in accordance with **AS/NZS1715 - Selection, use and maintenance of respiratory protective devices**



Available



Side shields



or



PVC



Industrial



Non slip



Organic

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear, colourless liquid
- Odour** : Mild solvent odour
- pH (33% sol'n)** : Not Applicable
- Vapour Pressure (kpa)** : Not Available
- Vapour Density** : No data
- Boiling Point** : 84 deg. C. at 100 kPa
- Freezing / Melting Point** : No specific data. Liquid at normal temperatures
- Solubility in Water** : Negligible
- Specific Gravity** : 0.69 at 15 deg. C.

INFORMATION FOR FLAMMABLE MATERIALS

- Flash Point** : Approx -15°C
- Percent Volatiles** : 100
- Upper Explosive Limit** : 7.0%
- Lower Explosive Limit** : 1.0%
- Auto ignition Temperature** : >200 deg.C.

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

ADDITIONAL INFORMATION

Specific Heat Value	:	N/A
Particle Size	:	N/A
VOC Content	:	100%
Evaporation Point	:	N/A
Kinematic Viscosity @ 40°C	:	N/A
Kinematic Viscosity@ 100°C	:	N/A
Octanol / Water Partition Coefficient	:	N/A
Saturation Vapour Concentration	:	N/A
Decomposition Temperature	:	N/A

10. STABILITY AND REACTIVITY

Chemical Stability	:	This product should be kept in a cool place, preferably below 30 deg. C. Keep containers tightly closed.
Incompatible Materials	:	Strong oxidising agents, natural rubber, butyl rubber, EPDM and polystyrene.
Hazardous Decomposition Products	:	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke.

11. TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS (IMMEDIATE OR WITHIN 14 DAYS - SHORT TERM)

Swallowed (Oral)	:	Produces hallucinations and drowsiness. Ingestion of large amounts will result in drowsiness, fatigue, loss of appetite, paraesthesia in distal extremities (tingling in hands and feet). Possibility of muscle weakness, cold pulsation in extremities (hands and feet), blurred vision, headache, and nausea. Vomiting may cause this product to be aspirated to the lungs resulting in chemical pneumonitis or pulmonary oedema which may be fatal.
Eye	:	This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. This product will not permanently damage the eye tissue.
Skin (Dermal)	:	This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.
Inhalation	:	Inhalation of the vapour may lead to drowsiness or dizziness.

CHRONIC (MEDIUM OR LONG TERM)

There is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs from repeated high exposure. Possibility of muscle weakness, cold pulsation in extremities (hands and feet), blurred vision, headache, and nausea.

Exposure to high concentrations of vapour over an extended period of time may result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

Toxicological Information

Oral LD50: heptane: LC50: 103 g/m³ (4H, inhalation, rat)

Dermal TCLo: heptane: 1000 ppm (inhalation, human)

CARCINOGENICITY

- This product does not contain any substances that are listed as carcinogens.

11. TOXICOLOGICAL INFORMATION (CONT.)

FOR SOLVENTS

USED SOLVENTS

- Used products may contain other contaminants. Contact with all types and makes of used solvents must therefore be avoided and a high standard of personal hygiene maintained.

12. ECOLOGICAL INFORMATION

- Ecotoxicity** : Toxic to aquatic life with long-lasting effects. May cause long-term adverse effects in the aquatic environment.
- Persistence / Degradability** : Material expected to be readily biodegradable. Degrades rapidly in air.
- Mobility** : Highly volatile, will partition rapidly to air.
- Environmental Fate (Exposure)** : Do not allow waste product to reach waterways, drains and sewers

Component	Aquatic Toxicity
Fish Toxicity (rainbow trout, goldfish, bluegill) L(E)C ₅₀ (96hr):	No data available
Blue-green algae (Toxicity threshold 7-8 days):	No data available
Green algae (Toxicity threshold 7-8 days):	No data available

13. DISPOSAL CONSIDERATIONS

- Disposal Methods** : This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable, consider controlled incineration in the appropriate equipment.
- Special Precautions for Landfill or Incineration** :

14. TRANSPORT INFORMATION

ENSURE ALL PACKAGES ARE IN ACCORDANCE WITH THE AUSTRALIAN DANGEROUS GOODS CODE (ADGC)

- UN Number** : 1206
- UN Proper Shipping Name** : Heptanes
- Dangerous Goods Class and Subsidiary Risk** : Class 3: Flammable Liquids
- Packing Group** : II
- Hazchem Code** : 3YE
- Limited Quantities** : 1L
- Marine Pollutant** : Yes

Dangerous Goods Segregation:

This product is classed as Dangerous Goods Class 3, packing group II.
Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

15. REGULATORY INFORMATION (AUSTRALIA)

COUNTRY: Australia
INVENTORY: AICS
STATUS: Listed
POISON SCHEDULE: S5 liquid hydrocarbons

Hazardous Chemical according to the criteria of Safe Work Australia.

16. OTHER INFORMATION

- References :** For detailed advice on personal protective equipment, refer to the following Australian Standards:
- HB9 (Handbook 9) Manual of industrial personal protection
 - AS/NZS 1337: Eye protectors for industrial applications
 - AS/NZS 1715: Selection, use and maintenance of respiratory devices
 - AS/NZS 1716: Respiratory protective devices
 - Supplier Material Safety Data Sheets
 - <http://chem.sis.nlm.nih.gov/chemidplus> (August 13)
 - <http://hsis.ascc.gov.au/SearchHS.aspx> (August 13)
 - Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (August 13)
 - *Sax's Dangerous Properties of Industrial Materials*, Richard J. Lewis Snr., pub. Canada (2000)

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

CONTACT POINT

Emergency Phone: **Chemcall: 1800 127 406**. For other information concerning details on this Safety Data Sheet,

Phoenix Lubricants Pty Ltd, 2 Paul Court, Dandenong Vic, (03) 9791 7661

All reasonable care has been taken to ensure that the information and advice contained herein is accurate at the time of printing. However, Phoenix Lubricants Pty Ltd accepts no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein.

Note:

This SDS is derived from International and Australian data and is formatted generally in accordance with the Safe Work Australia Code of Practice. Modifications are not made to technical data except where terminology is unclear or additional information is required to satisfy Australian requirements.

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