

SAFETY DATA SHEET



PHOENIX®

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PX ACETONE

Code : ACETONE
Proper Shipping Name : ACETONE
Use : Cleaning Fluid

Name : Phoenix Lubricants Pty Ltd (ABN 41 820 770 617)
Address : 2 Paul Court, Dandenong Vic 3175
Telephone : (03) 9791 7661
Facsimile : (03) 9791 8831
Email : info@phoenixlubricants.com.au
Web : www.phoenixlubricants.com.au

2. HAZARD IDENTIFICATION

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

Hazard Class and Category:

Flammable Liquids Category 2

Eye Irritation Category 2A

Specific Target Organ Toxicity, Single Exposure Category 3

Signal Word: DANGER

GHS Pictograms:



Hazard Statements:

H225: Highly flammable liquid and vapour

H318: Causes serious eye irritation

H336 May cause drowsiness and dizziness

AUH066 Repeated exposure may cause skin dryness and cracking

Precautionary Statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P405: Store locked up.

P241: Use explosion-proof electrical, ventilating, lighting and equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing vapours.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear eye protection.

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

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

2. HAZARD IDENTIFICATION – CONT.

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

P403+P235 + P233: Store in a well ventilated place. Keep cool. Keep container tightly closed.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents and container as hazardous waste.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:

Component	CAS No.	Conc, %
Acetone	64-17-5	>99.5
Water	7732-18-5	<0.5
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*
- Give large amount of water
 - Do not induce vomiting or give anything by mouth to an unconscious person
 - Call Poisons Information Centre or seek immediate medical attention
- Eye** :
- Hold eye open
 - Irrigate with water until irritation subsides (at least 15 minutes). Use luke warm water where available.
 - Seek immediate medical attention
 - Take special care if the person is wearing contact lenses
- Skin** :
- Flush area with large amounts of water
 - Wash skin with soap and water
 - Remove contaminated clothing
 - Seek medical attention if skin irritation occurs
- Inhalation** :
- Remove from exposure if safe to enter area
 - Loosen/remove clothing
 - Move to fresh air and observe until recovered
 - Administer artificial respiration if breathing has stopped
 - Seek immediate medical attention if respiratory irritation, dizziness, nausea or headache occurs

ADVICE TO DOCTOR

- Treat symptomatically with supportive care.
- Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis
- For further information contact:

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	:	●2YE
Flash point	:	-17°C
Fire & Explosive Properties	:	Highly flammable and volatile: explosion hazard. 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.
Suitable Extinguishing Media	:	Suitable extinguishing media are dry chemical or alcohol resistant foam.
Hazards from Combustion Products	:	Fire decomposition products from this product may be toxic if inhaled. (Carbon dioxide and carbon monoxide)
Precautions for Fire Fighters - Special Equipment	:	<ul style="list-style-type: none"> • Positive pressure self-contained breathing apparatus (SCBA) and protective suit • Protective fire fighting clothing

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	
T			CONTAIN
W	V	LTS	
X			
Y	V	BA & FIRE KIT	
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: <ul style="list-style-type: none"> o Liquid Oxygen o Liquefied Toxic Gas (Division 2.3) o Toxic Gas with sub-risk 2.1 or 5.1 o Class or sub-risk 3 o Division 5.1 PGI 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

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for the subsequent recycling or disposal. Wash the cleaned up area with copious volumes of water to remove any trace amounts of product. Spills can be converted to non-flammable mixtures by dilution with water. Ventilate area well and ensure the atmosphere is safe before personnel return to the work area. If contamination of sewers or waterways has occurred, advise the local emergency services and environmental authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges.

Earth or bond all equipment. Do not empty into drains. Maintain a high level of personal hygiene when using the product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Conditions for Safe Storage:

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all Local, State and Federal regulations.

Container Type	:	<ul style="list-style-type: none"> • Store in original packaging as approved by manufacturer or regulatory direction. Do not pressurise, cut, heat or weld containers- residual vapours are flammable.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONSTITUENT DATA

Components	CAS-No.	Type	Value
Acetone	67-64-1	TWA	500 ppm / 1185 mg/m ³
		STEL	1000 ppm / 2375 mg/m ³

ENGINEERING CONTROLS

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

PERSONAL PROTECTION

- Eye Protection** : Wear safety glasses or 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



or



Organic

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear, colourless liquid
- Odour** : Solvent Odour
- pH (1% sol'n)** : Not Applicable
- Vapour Pressure (kPa)** : 24 kPa @ 20C
- Vapour Density** : 2 (air)
- Boiling Point** : 56 deg. C
- Freezing / Melting Point** : -117C
- Solubility in Water** : Miscible
- Specific Gravity** : 0.792 at 15 deg. C.

INFORMATION FOR FLAMMABLE MATERIALS

- Flash Point** : -17°C
- Percent Volatiles** : 100%
- Upper Explosive Limit** : 13.0%
- Lower Explosive Limit** : 2.6%
- Auto ignition Temperature** : 465 deg.C.

ADDITIONAL INFORMATION

- Specific Heat Value** : N/A
- VOC Content** : 100%
- Evaporation Rate** : Fast
- Kinematic Viscosity @ 40°C** : N/A
- Decomposition Temp** : 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.
Conditions to avoid	:	Heat, sparks, flame and build-up of static electricity.
Incompatible Materials	:	Oxidising agents, strong alkalis, strong mineral acids and bromine.
Hazardous Decomposition Products	:	Combustion forms carbon dioxide, and if incomplete, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

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

Swallowed (Oral)	:	This material will cause irritation to the throat, trachea and respiratory tract. It may cause nausea. Swallowing large amounts will have a narcotic effect: headaches, dizziness, euphoria, loss of appetite and possibly loss of consciousness. Vomiting may cause the product to be aspirated to the lungs resulting in chemical pneumonitis
Eye	:	Liquid may cause moderate to severe eye irritation and corneal damage. Most subjects exposed to vapour concentrations of 500 – 100 ppm experience irritation to the eyes.
Skin (Dermal)	:	May be mildly irritating. Prolonged or repeated exposure may cause defatting resulting in dryness or cracking of the skin. Due to its low toxicity and high volatility, this product is unlikely to be absorbed through the skin in harmful amounts unless evaporation is prevented.
Inhalation	:	Vapour concentrations above 500 ppm are irritating to the nose and throat. High vapour concentrations above 1000 ppm result in narcotic effects including possible headaches, dizziness, loss of coordination, nausea, loss of appetite and possibly loss of consciousness.

CHRONIC (MEDIUM OR LONG TERM)

Repeated or prolonged skin contact with the liquid may cause irritant contact dermatitis. A study of 800 workers occupationally exposed to these vapours (600 - 2150 ppm) over an 18 year period revealed no significant adverse health effects compared with unexposed workers.

Other Health Effects Information:

Exposure to this product potentiates (greatly enhances) the liver and kidney toxicity of chlorinated hydrocarbon solvents such as trichloroethylene and chloroform. Fasting and diabetes increases the normal levels of acetone in the body. Dieters and diabetics exposed to levels of acetone may feel overexposure effects at lower levels of occupational exposure. Exposure to high concentrations of acetone may aggravated pre-existing skin, respiratory, blood, liver, kidney and reproductive disorders in humans.

Toxicological Information

Oral LD50: Oral: 5.8 - 8.4 g/kg (rat); dermal: 20 g/kg (rabbit).
Dermal TCLo: Inhalation: LC50: 32000 ppm for 4 hours (rat)

CARCINOGENICITY

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

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

Log Kow	: -0.24
Ecotoxicity	: Low environmental toxicity when dilute. Breakdown may remove oxygen from water
Persistence / Degradability	: Material is readily biodegradable. Degrades by photooxidation in air, with low photochemical ozone creation potential. This product can be removed from the air by rainfall. Considered as readily biodegradable. If released to water, this product will dissolve and volatilise at a slow but significant rate. Biodegradation will occur in surface water.
Mobility	: Highly volatile, will partition rapidly to air. In soil, this product will evaporate and leach readily in most types of soil. Acetone has a negligible tendency to bioaccumulate.
Environmental Fate (Exposure)	: Do not allow waste product to reach waterways, drains and sewers

Component: Acetone	Aquatic Toxicity
Fish Toxicity (rainbow trout, goldfish, bluegill) L(E)C ₅₀ (96hr):	Fish Toxicity (rainbow trout, goldfish, bluegill): LC ₅₀ (96hr): 5000 - 13000 mg/L
Blue-green algae (Toxicity threshold 7-8 days):	530 mg/L
Green algae (Toxicity threshold 7-8 days):	7500 mg/L

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, or landfill.
Special Precautions for Landfill or Incineration	: This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

14. TRANSPORT INFORMATION

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

UN Number	: 1090
UN Proper Shipping Name	: ACETONE
Dangerous Goods Class and Subsidiary Risk	: Class 3: Flammable Liquids
Packing Group	: II
Hazchem Code	: ●2YE
Limited Quantities	: 1L
Marine Pollutant	: No
EPG Number	: 3A1
IERG Number	: 14

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

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
 - Ingredient Material Safety Data Sheets

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)
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

CONTACT POINT

Emergency Phone: **1800 638 556** 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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