SAFETY DATA SHEET

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PHOENIX®

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PX METHYLATED SPIRITS

Code	:	METHO
Proper Shipping Name	:	ETHYL ALCOHOL
Use	:	Solvent
Other Name/ s	:	Industrial Methylated Spirit/ Ethanol IMS 95 DG
Name	:	Phoenix Lubricants Pty Ltd (ABN 41 820 770 617)
Address	:	2 Paul Court, Dandenong Vic 3175
Telephone	:	(03) 9791 7661
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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
Eye Irritation Category 2A

Signal Word: DANGER
GHS Pictograms:

Hazard Statements:
H225: Highly flammable liquid and vapour
H318: Causes serious eye irritation

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.
P264: Wash hands thoroughly after handling.
P280: Wear eye protection.
P303+P361+P352: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of soap and water.
P370+378: In case of fire: Use sand, earth, or alcohol resistant foam to extinguish.
P403+P235: Store in a well ventilated place. Keep cool.
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.
P501: Dispose of contents and container as hazardous waste.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:

Component	CAS No.	Conc, %
Ethyl Alcohol	64-17-5	>90
Water	7732-18-5	1 - 10
Denaturant	various	0 – 0.99
Other ingredients not classified as hazardous chemicals according to Safe Work Australia Criteria		

Note: The denaturants used in this product may be one or more of the following: denatonium benzoate, methyl isobutyl ketone (MIBK), or fluorescein. The denaturants do not exceed 1.0% of the final product and at this low concentration do not alter the health and safety information for the product.

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)
- 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.
- 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

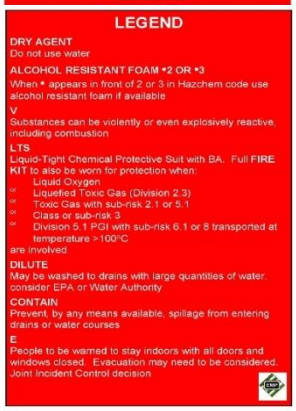
Hazchem Code : 2YE
Flash point : 13°C

Fire & Explosive Properties : Highly flammable and 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 :
- Positive pressure self-contained breathing apparatus (SCBA) and protective suit
- Protective fire fighting clothing



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
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 subsequent recycling or disposal.
Wash the cleaned up area with copious volumes of water to remove any trace amounts of product.
Ethanol mixes completely with water. 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 :
- Store in original packaging as approved by manufacturer or regulatory direction. Do not pressurise, cut, heat or weld containers- residual vapours are flammable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONSTITUENT DATA

Components	CAS-No.	Type	Value
Ethanol	64-17-5	TWA	1000 ppm / 1800 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* *PVC* *Industrial* *Non slip* *Organic*

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear, colourless liquid
Odour	:	Solvent Odour
pH (1% sol'n)	:	Not Applicable
Vapour Pressure (kPa)	:	5.87 kPa @ 20C
Vapour Density	:	1.59
Boiling Point	:	79 deg. C
Freezing / Melting Point	:	-117C
Solubility in Water	:	Miscible
Specific Gravity	:	0.79 at 20 deg. C.

INFORMATION FOR FLAMMABLE MATERIALS

Flash Point		13°C
Percent Volatiles	:	100%
Upper Explosive Limit	:	19.0%
Lower Explosive Limit	:	3.5%
Auto ignition Temperature	:	392 deg.C.

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

ADDITIONAL INFORMATION

Specific Heat Value	:	N/A
VOC Content	:	100%
Evaporation Rate	:	253 (n-Butyl Acetate = 100) (Ethanol)
Kinematic Viscosity @ 40°C	:	N/A
Saturation Vapour Concentration	:	N/A
Decomposition Temperature	:	N/A
Electrostatic Stability	:	N/A
Pour Point	:	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,

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) : Swallowing can cause drunkenness and any health effects caused by the total intake of ethanol containing products is a known occupational risk, and as little as 50-100ml intake in a shift in a 70kg worker may cause inebriation to the point where safety is impaired. Effects of a small intake may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, and fatigue. Drinking a large amount may lead to severe acute intoxication, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death. Aspiration into lungs may cause pneumonitis.

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. Vapours may irritate the eyes. Symptoms may include redness, excessive tearing, stinging, swelling and blurred vision

Skin (Dermal) : Contact with skin may result in slight irritation and redness. Prolonged or repeated contact and heavy skin contamination may cause skin drying and cracking and/or dermatitis with redness, itching, and swelling. This may lead to possible secondary infection.

Inhalation : Inhalation at levels at or exceeding the Occupational Exposure limits or any deliberate ingestion is known to lead to health effects which may be evident in themselves, or lead to impaired functioning and consequent safety risks in the industrial setting. A blood alcohol level in excess of 0.05g\100ml is regarded as likely to impair functioning for tasks such as operating machinery. Vapour may be irritating to mucous membranes and respiratory tract. Inhalation of the vapour may result in drunkenness, (see effects of swallowing above) or headache, nausea, incoordination, narcosis (sleepiness) and vomiting. Early signs or symptoms may occur at airborne levels of 1000 to 5000 ppm. Ongoing or repeated exposures at high concentrations may cause central nervous symptoms similar to 'swallowed' above. Deliberate inhalation of the vapour is a known occupational risk..

11. TOXICOLOGICAL INFORMATION (CONT.)

CHRONIC (MEDIUM OR LONG TERM)

Long term exposure by swallowing or repeated exposures in excess of the occupational exposure limits occur, may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle. Persons with pre-existing liver impairment, skin and respiratory disorders may be at an increased risk. Ethanol may cause adverse reproductive effects.
Absorption of some drugs may be affected causing adverse health effects. Ingestion by pregnant women may cause serious effects in their newborn babies called 'foetal alcohol syndrome'. Ethanol is not listed as a carcinogen by the Australian Safety and Compensation Commission (formerly NOHSC). The International Agency for Research on Cancer (IARC) has evaluated ethanol as a human carcinogen on the basis of effects of drinking alcoholic beverages, but there is no known carcinogenic risk from occupational exposures. There is extensive toxicological and epidemiological information on the health effects of ingesting alcoholic drinks containing ethanol. Any occupational exposures will add to overall exposures from ingestion of alcoholic drinks any health effects that result from such exposures.

CARCINOGENICITY

FOR SOLVENTS

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

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	:	Low environmental toxicity when dilute. Breakdown may remove oxygen from water
Persistence / Degradability	:	Material is 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	:	1170
UN Proper Shipping Name	:	ETHANOL
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 in containers 5L or less.

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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Supplier	**:**	Phoenix Lubricants Pty Ltd