



SAFETY DATA SHEET

compiled according to Safe Work Australia and the GHS

Revision Date: 13-Sep-16


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1. IDENTIFICATION

Product Identifier	PROTEMP
Product Code	1402
Other Means of Identification	AntiFreeze / AntiBoil Concentrate Coolant
Recommended Use of the Chemical and Restriction on Use	Automotive Engine Coolant Type A
Details of Manufacturer or Importer	Lidomont Pty. Ltd., trading as Prolube Lubricants 15 Pinnacle Street, Brendale, Queensland, 4500
Phone	07 3881 1733 (+61 7 38811733 – International)
Emergency Telephone	000 (Australia Only)
Poisons Information Centre Phone	13 11 26

2. HAZARDS IDENTIFICATION

Physical Hazard(s)	Classified as Hazardous according to Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria. Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Health Hazard(s)	Acute Toxicity Category 4
Environment Hazard(s)	Not classified
GHS Label Elements	
Signal Word	WARNING

Hazard Statement(s)

H302 Harmful if swallowed

Precautionary Statement(s): General

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

Precautionary Statement(s): Prevention

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Precautionary Statement(s): Response

P330 Rinse mouth.

P301+P312 If SWALLOWED: Call a Poison Centre or doctor/physician if you feel unwell.

Precautionary Statement(s): Storage

None



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Precautionary Statement(s): Disposal

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Monoethylene Glycol	107- 21- 1	> 90 %
Ingredients determined to be non- hazardous at the formulation concentration		to 100%

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

Inhalation

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact

If skin or hair contact occurs, remove any contaminated clothing and wash skin and hair thoroughly with running water. If irritation occurs seek medical assistance.

Eye contact

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion

Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Do not induce vomiting. Do not give anything to an unconscious person. Seek medical assistance.

Advice to Doctor

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment

Water, spray, foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the chemical

On burning will emit toxic fumes, oxides of carbon and smoke. Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches etc.



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Special protective equipment and precautions for firefighters

Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear Safe Work Australia approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental precautions

In the event of a major spill, prevent spillage from entering drains or water courses. If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for Containment and cleaning up

Slippery when spilt. Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Use appropriate personal protective equipment – see Section 8. Use safe work processes to avoid eye or skin contact and inhalation of vapours. Use only in well ventilated areas. Do not store in contact with food, beverages or tobacco products. Eating drinking or smoking in areas where this product is stored or processed should be prohibited. Always wash thoroughly after handling. Wash contaminated clothing and other protective equipment before storage or reuse. Provide eyewash fountains and safety showers in close proximity to points of use.

Conditions for safe storage

Store in accordance with local regulations in a cool, dry and well ventilated area. Store in original container tightly closed and away from incompatible materials (see Section 10). Check regularly for leaks and physical damage. Opened containers should be carefully resealed and stored in an upright position. Empty containers may contain residues and be dangerous. Store and use only in equipment designed for use with this type of product. Use appropriate bunding or containment to prevent environmental contamination.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

No value assigned for this specific material by Safe Work Australia.

Engineering controls

Engineering controls should be in place as a primary source of protection over the use of Personal Protective Equipment. Ensure adequate ventilation of the working area or provide exhaust ventilation to keep the relevant airborne concentrations below acceptable levels.

Individual protection measures

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as

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provided below, is based upon intended, normal usage.

Eye and face protection: If contact is likely, safety glasses with side shields are recommended.

Skin protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include chemical resistant, nitrile or viton. Long sleeve and long pants will provide protection.

Respiratory protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. An organic vapour type respirator should be considered for this material. No special requirements under ordinary conditions of use and with adequate ventilation. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practise good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Form	Liquid
Colour	Green
Odour	Slight
Odour Threshold	Not determined
pH-Value	10.2 – 10.6
Melting point/Melting range	No information available
Initial Boiling Point/Boiling Range	> 100 °C
Flash Point	116 °C (Ethylene glycol)
Flammability	Combustible
Auto-ignition Temperature	No information available
Decomposition Temperature	No information available
Explosion Limits: Lower	3.2% (ethylene glycol vapour in air)
Upper	12.8% (ethylene glycol vapour in air)
Vapour Pressure at 20 °C	No information available
Relative Density at 15 °C	1.11 – 1.13
Vapour Density	No information available
Evaporation Rate	Not applicable
Solubility in Water	Miscible

10. STABILITY AND REACTIVITY

Reactivity: Will not occur.

Chemical stability: Stable at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat. High energy sources of ignition.

Incompatible materials: Strong oxidisers.

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Hazardous decomposition products: Material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50/LC50 values relevant	
<i>Oral LD 50</i>	Not available
<i>Dermal LD50</i>	Not available
<i>Inhalation LC50</i>	Not available
Acute Health Effects	
<i>Inhalation</i>	May cause respiratory tract irritation, drowsiness and dizziness.
<i>Skin</i>	Contact with skin can result in irritation.
<i>Eye</i>	May be an eye irritant.
<i>Ingestion</i>	Swallowing can result in nausea, vomiting, diarrhoea and abdominal pain.
Skin Corrosion / Irritation	Based on classification principles, the classification criteria are not met
Serious Eye Damage / Irritation	Based on classification principles, the classification criteria are not met
Respiratory or Skin Sensitisation	Based on classification principles, the classification criteria are not met
Germ Cell Mutagenicity	Based on classification principles, the classification criteria are not met
Carcinogenicity	Based on classification principles, the classification criteria are not met
Reproductive Toxicity	Based on classification principles, the classification criteria are not met
Specific Target Organ Toxicity (STOT) -	
<i>Single Exposure</i>	Based on classification principles, the classification criteria are not met
<i>Repeated Exposure</i>	Based on classification principles, the classification criteria are not met
Aspiration Hazard	Based on classification principles, the classification criteria are not met
Chronic Health Effects	Repeated or prolonged skin contact may cause dermatitis. The toxic effects of glycols are similar to those of alcohol, with depression of the central nervous system, nausea, vomiting, and degenerative changes in the liver and kidney.
Existing Conditions Aggravated by Exposure	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not considered hazardous for the environment based on currently available information.

Persistence and degradability: Is expected to be inherently biodegradable.

Bioaccumulative Potential: Limited potential for bioaccumulation.

Mobility in soil: Miscible with water.

13. DISPOSAL CONSIDERATIONS

Disposal method and Containers

Dispose according to applicable local and state government regulations.

Empty containers may contain residue and can be dangerous. Packaging should be recycled and disposal via incineration or landfill should only be considered when recycling not possible. Do not pressurize, cut, weld, braze, solder, drill grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.



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Special precautions for incineration or landfill

Consult your state Land Waste Management Authority for more information. Product may be suitable for burning in an enclosed controlled burner for fuel value or disposal by incineration at very high temperatures.

14. TRANSPORT INFORMATION

	Australian Dangerous Goods (ADG)	International Maritime Dangerous Goods (IMDG)	International Air Transport Association (IATA)
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	n/a	n/a	n/a
Dangerous Goods Class	n/a	n/a	n/a
Packing Group	n/a	n/a	n/a

Special precautions for user

Store away from oxidizing agents.

15. REGULATORY INFORMATION

Classified as hazardous according to criteria of NOHSC

Harmful

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) – Poison Schedule

S6

Australian Inventory of Chemical Substances (AICS)

All components are listed or exempt

16. OTHER INFORMATION

Creation Date 13/9/2016

Prepared by Lidomont Pty Ltd, 15 Pinacle St Brendale QLD

Revision information

Date and Changes: none

Abbreviations Used

GHS, Globally Harmonised System of Classification and labelling of Chemicals

CAS, Chemical Abstracts Service (Division of American Chemical Society)

LC50, Lethal concentration 50%

LD50, Lethal dose 50%

STEL, Short Term Exposure Limit

TWA, Time Weighted Average

UN, United Nations

n/a, not applicable



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Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of practice for the Preparation of Safety Data Sheets for Hazardous Chemicals – December 2011. The information and recommendations contained herein are, to the best of Prolube's knowledge and belief, accurate and reliable as of the date issued. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. You can contact Prolube to insure that this document is the most current available from Prolube. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.