



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** PM600 COOLCOR LONGLIFE HD COOLANT 100%  
CONCENTRATE

**Product Code:** 600

**Product Use:** Radiator Antifreeze, Coolant

**Supplier:** PM Lubrication (ABN 95 880 856 055)  
4/105 Archibald Street, Mackay  
Queensland, 4740 Australia  
Phone: +61 (07) 4998 5851

**EMERGENCY  
TELEPHONE NUMBER:** 1800 033 111 (Australia)

**Chemical Nature:** Ethylene Glycol

**Creation Date:**

**This version issued:** Feb. 2021

## SECTION 2 – HAZARDS IDENTIFICATION

### Statement of Hazardous Nature

This product is classified as: **Hazardous** according to the criteria of SWA.  
Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

**Symbol:** Xn - Harmful  
**Risk Phrases:** R22 – Harmful if swallowed  
**Safety Phrases:** S2 – Keep out of reach of children

### EMERGENCY OVERVIEW

**Physical Description & Colour:** Blue/Green viscous liquid

**Odour:** None

**Major Health Hazards:** Harmful if swallowed

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients     | CAS No    | Conc, % | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|-----------------|-----------|---------|--------------------------|---------------------------|
| Ethylene Glycol | 107– 21-1 | >90-98  |                          |                           |

This is a commercial product whose exact ratio of components may vary slightly.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

#### **SECTION 4 – FIRST AID MEASURES**

##### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia, available at all times. Have this MSDS with you when you call.

**Swallowed:** If swallowed, do **NOT** induce vomiting. Have conscious person drink several glasses of water or milk. **SEEK IMMEDIATE MEDICAL ATTENTION.**

**Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists seek medical attention.

**Skin:** If skin contact occurs, wash skin thoroughly with water and follow by washing with soap if available. If irritation persists, seek medical attention.

**Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**First Aid facilities:** Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

**Advice to Doctor:** Treat symptomatically.

**Additional Information:** None available.

#### **SECTION 5 – FIRE FIGHTING MEASURES**

**Extinguishing Media:** For a small fire, use dry chemicals, carbon dioxide, foam, water fog. For large fires use water spray or fog. Do not use water jet.

**Hazards from combustion products:** Carbon dioxide and carbon monoxide.

**Precautions for Fire Fighters and Special Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

**Additional Information:** When heated to decomposition, emits acrid smoke and irritating fumes. Not a product presenting risks of explosion.

#### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Observe all local and national regulations.

##### **Spills and Disposal, Methods and Materials for Containment and Clean Up Procedures:**

For small spills, dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. For large spills, absorb with an inert material and put the spilled material in an appropriate waste disposal container. Dispose of in accordance with regional regulations.

### **SECTION 7 – HANDLING AND STORAGE**

**Precautions for Safe Handling and Storage:** Avoid contact with eyes, skin and clothing. **DO NOT** ingest. Avoid breathing vapour and mist, keep container closed. Keep container in a cool, well-ventilated area, away from strong oxidisers, and use only with adequate ventilation. Avoid all possible sources of ignition. Wash thoroughly after handling. Before eating, drinking or smoking, remove contaminated clothing. Do not eat, drink or smoke in contaminated areas

### **SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Standards:** National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard of 52mg/m<sup>3</sup> (20ppm) TWA (vapour), 104mg/m<sup>3</sup> (40ppm) STEL (vapour) and 10mg/m<sup>3</sup> TWA (particulate)

**Biological Limit Values:** No biological limit allocated.

**Personal Protective Equipment:**

**Respiratory Protection:** Wear appropriate respirator when ventilation is inadequate.

**Hand Protection:** Use solvent resistant gloves (nitrile, PVC or neoprene).

**Eye Protection:** Wear safety goggles.

**Protective Clothing:** No special protection is ordinarily required beyond standard issue work clothes

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists

### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|   |   |
|---|---|
| <b>Physical Description &amp; Colour:</b> | Blue/Green viscous liquid                 |
| <b>Odour:</b>                             | None                                      |
| <b>Boiling Point (°C):</b>                | 197                                       |
| <b>Freezing/Melting Point (°C):</b>       | -13                                       |
| <b>Percent Volatiles:</b>                 | 0   |
| <b>Vapour Pressure (mmHg @ 20°C):</b>     | 0.06                                      |
| <b>Vapour Density (air = 1):</b>          | 2.1                                       |
| <b>Specific Gravity:</b>                  | 1.113 Kg/L at 15°C                        |
| <b>Water Solubility:</b>                  | Soluble in water, methanol, diethyl ether |
| <b>pH:</b>                                | 7.5 to 8.5 (1% in water)                  |
| <b>Flashpoint (°C)</b>                    | 116.1 (Closed Cup)                        |
| <b>Flammability Limits (%):</b>           | 3.2 – 15.3                                |
| <b>Autoignition Temp.</b>                 | 412°C                                     |

### **SECTION 10 – STABILITY AND REACTIVITY**

**Chemical Stability:** Stable under normal conditions of use

**Conditions to Avoid:** No additional remark.

**Incompatible Materials:** Strong oxidising agents, acids, alkalis.

**Hazardous Decomposition Products:** Burning can produce carbon monoxide and/or carbon dioxide.

### **SECTION 11 – TOXICOLOGICAL INFORMATION**

#### **HEALTH EFFECTS**

**Acute:**

**Swallowed:** Hazardous in case of ingestion (approx. 100ml can be fatal).

**Eye:** Contact may cause eye irritation

**Skin:** Irritant – prolonged contact may cause dermatitis.

**Inhaled:** Inhalation should be minimal since vapours are unlikely due to physical properties. Inhalation may cause irritation to lung.

**Chronic:** Toxic to kidneys and liver.

**Toxicity to Animals:** Acute oral toxicity (LD50): 4700mg/kg (Rat)

Acute dermal toxicity (LD50): 9530 mg/kg (Rabbit).

### **SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Fish: Low toxicity: LC/EC/IC50 > 100mg/l

Aquatic Invertebrates: Low toxicity: LC/EC/IC50 > 100mg/l

Algae: Low toxicity: LC/EC/IC50 > 100mg/l

Microorganisms: Low toxicity: LC/EC/IC50 > 100mg/l

**Mobility:** Miscible with water.

**Persistence/degradability:** Biodegradable

### **SECTION 13 – DISPOSAL CONSIDERATIONS**

**Disposal Methods:** Ensure waste disposal conforms to local waste disposal regulations.

### **SECTION 14 – TRANSPORT INFORMATION**

|                                      |               |                              |     |
|--------------------------------------|---------------|------------------------------|-----|
| <b>UN Number:</b>                    | Non-Regulated | <b>Proper Shipping Name:</b> | N/A |
| <b>Class:</b>                        | N/A           | <b>Subsidiary Risk:</b>      | N/A |
| <b>Packing Group:</b>                | N/A           | <b>Hazchem Code:</b>         | N/A |
| <b>Special Precautions For User:</b> | None          |                              |     |

### **SECTION 15 – REGULATORY INFORMATION**

**Poisons Schedule:** 5

**Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010):** N/A

**16 – OTHER INFORMATION**

**This MSDS contains only safety related information. For other data see product literature.**

**Acronyms:**

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

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