MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**PM610 COOLCOR OAT HDD (ORGANIC ACID TECHNOLOGY) CONCENTRATE**
Product Code:	**610**
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: Red/Orange viscous liquid.
Odour: None
Major Health Hazards: **Harmful if swallowed**.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc,%	TWA (mg/m^3)	STEL (mg/m^3)
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/m3 (20ppm) TWA (vapour), 104mg/m3 (40ppm) STEL (vapour) and 10mg/m3 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

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

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 – ECOCOLOGICAL 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.
Persistance/degradability: Biodegradable

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

UN Number:	Non-Regulated	**Proper Shipping Name:**	N/A
Class:	N/A	**Subsidiary Risk:**	N/A
Packing Group:	N/A	**Hazchem Code:**	N/A
Special Precautions For User:	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:	
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 & 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

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified above. No warranty or representation, express or implied is made as to the accuracy of completeness of the data and information in this data sheet. The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from PM Lubrication. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. PM Lubrication shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected, of any hazards described in this sheet and of any precautions that should be taken. You can contact PM Lubrication to ensure that this document is the most current available. Alteration of this document is strictly prohibited.