

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: PG COOL
Product Use: Coolant, heat transfer fluid, cooling fluid.
Supplier: Vertex Lubricants
22 Marphona Crescent
Takanini 2105
Phone: 09/640 0004
Email: info@vertexlubricants.co.nz
Emergency Number: 0800 353 645
Chemical Nature: Propylene glycol
Issue Date: 25 March 2024 and is valid for 5 years from this date.

SECTION 2 – HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to the criteria of the Globally Harmonised System (GHS 7) hazard classification system in New Zealand.

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical entity	CAS N ^o	%, wt
Propylene glycol	57-55-6	≥90
Ingredients not hazardous	N/A	Balanced to 100

SECTION 4 – FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from 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 contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering, or 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, do NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
PPE for First Aiders:	Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash your hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Notes to physician:	Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Hazchem Code:	Not applicable.
Suitable extinguishing media:	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
Specific hazards:	Non-combustible material.
Firefighting further advice:	Not applicable.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills:	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
Large Spills:	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand, or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Dangerous Goods - Initial Emergency Response Guide No:	Not applicable

SECTION 7 – HANDLING AND STORAGE

Handling:	Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist, or aerosols.
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Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by Safe Work New Zealand.

Biological Limit Values:

As per the Safe Work New Zealand, the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures:

Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment:

Safety Shoes, Overalls, Gloves, Safety Glasses. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. When handling individual retail packs no personal protection equipment is required. Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures:

Keep away from food, drink, and animal feeding stuffs. When using do not eat, drink, or smoke. Wash hands prior to eating, drinking, or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist, or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Red
Odour:	Odourless
Solubility:	Miscible with water
Specific Gravity:	Approx. 1.04
Relative Vapour Density (air=1):	>1
Vapour Pressure (20°C):	Not Available
Flash Point (°C):	Not Applicable
Flammability Limits (%):	Not Applicable
Autoignition Temperature (°C):	Not Applicable
Freezing Point/Range (°C):	-15
Boiling Point/Range (°C):	Approx. 104
pH:	Approx. 9.0
Viscosity:	Not Applicable
Total VOC (g/Litre):	Not Applicable
(Typical values only - consult specification sheet)	

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability:	This material is thermally stable when stored and used as directed.
Conditions to avoid:	Elevated temperatures and sources of ignition.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Oxides of carbon and nitrogen, smoke, and other toxic fumes.
Hazardous reactions:	No known hazardous reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation:	Material may be an irritant to mucous membranes and respiratory tract.
Skin contact:	Contact with skin may result in irritation.
Ingestion:	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	May be an eye irritant.

Acute toxicity

Inhalation:	This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): $LC^{50} > 20.0$ mg/L for vapours or $LC^{50} > 5.0$ mg/L for dust and mist.
Skin contact:	This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): $LD^{50} > 2,000$ mg/Kg bw.
Ingestion:	This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): $LD^{50} > 2,000$ mg/Kg bw.
Corrosion/Irritancy:	Eye: this material has been classified as not corrosive or irritating to the eyes. Skin: this material has been classified as not corrosive or irritating to skin.
Sensitisation:	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
Aspiration hazard:	This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure):

This material has been classified as not a specific hazard to target organs by a single exposure.

Chronic Toxicity

Mutagenicity:

This material has been classified as not a mutagen.

Carcinogenicity:

This material has been classified as not a carcinogen.

Reproductive toxicity (including via lactation):

This material has been classified as not a reproductive toxicant.

Specific target organ toxicity (repeat exposure):

This material has been classified as not a specific hazard to target organs by repeat exposure.

SECTION 12 – ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard:

This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L

Long-term aquatic hazard:

This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Ecotoxicity:

No information available.

Persistence and degradability:

Low

Bio accumulative potential:

No information available.

Mobility:

No information available.

SECTION 13 – DISPOSAL CONSIDERATION

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS. If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national, and international Regulations.

SECTION 14 – TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International

Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Special precautions for user

Not available.

SECTION 15 – REGULATORY INFORMATION

<p>This material is not subject to the following international agreements:</p>	<ul style="list-style-type: none"> • Montreal Protocol (Ozone depleting substances) • The Stockholm Convention (Persistent Organic Pollutants) The Rotterdam Convention (Prior Informed Consent) Basel Convention (Hazardous Waste) • International Convention for the Prevention of Pollution from Ships (MARPOL)
<p>This material/constituent(s) is covered by the following requirements:</p>	<ul style="list-style-type: none"> • The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): Not Applicable. • AICIS Status: All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC).

SECTION 16 – ANY OTHER RELEVANT INFORMATION

MSDS Creation date: 25 March 2024

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

MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.