



Safety Data Sheet

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

➤ **Product Name**

Trade Name : Radiator Coolant

➤ **Manufacturer / Supplier** : GIBSON OIL SDN. BHD.

No. 15, Jalan Bukit 24, Bandar Seri Alam, 81750 Masai, Johor.

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

➤ **Product type**

Coolant

➤ **Composition / Information on ingredient**

Components
MEG 12 – 15%

Cas No of Components
203-473-3

SECTION 3 - HAZARDS IDENTIFICATION

➤ **Health Hazard**

May cause an allergic skin reaction.

➤ **Environmental Hazard**

This preparation does not require classification on the basic of environment hazard.

➤ **Physical and Chemical hazards / Fire and Explosion hazards.**

Low hazard, material can from flammable mixture or can burn only heating to temperatures at or above the flash point. . See section 9 “PHYSICAL AND CHEMICAL PROPERTIES”.

Decomposes flammable and or toxic gases will form upon decomposition. See Section 10” STABILITY AND REACTIVITY”. Toxic gases will form upon combustion. See section 5: Fire-Fighting measures”.

SECTION 4 - FIRST AID MEASURES

➤ **Inhalation**

Remove patient to a clean atmosphere and administer oxygen if it is necessary. Consult a physician immediately.

➤ **Skin Contact**

Immediately flush with large amounts of water, use soap if available. Remove grossly contaminated clothing including shoes and launder before reuse.

➤ **Eye Contact**

Immediately flush eyes with large amounts of water or at least 15 minute. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.



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SECTION 5 - FIRE FIGHTING MEASURES

- **Fire Fighting Produces**
Use water spray cool fire exposed surfaces and to protect personnel.
Shut off "fuel" to fire.
Use dry chemical powder, foam, carbon dioxide (CO²) or water fog to extinguish fire.
- **Special fire precautions**
Respiratory and eye protection required for the fire fighting personnel. See also Section 4 "First Aid Measures" as well as Section 10 "Stability and Reactivity" Hazardous Combustion Product: Fumes, smoke, Carbon Dioxide (CO₂).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Land Spill**
Contain spill liquid with sand or earth.
Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal.
Consult and expert on disposal of recovered material and ensure conformity to local disposal regulations.
See section 4 "FIRST AID MEASURES" as well as Section 10 "STABILITY AND REACTIVITY".
- **Water spill**
Warn other shipping. Notify port or relevant authority and keep public away. Shut off sources if possible to do without hazard. Confine if possible. Remove from surface by skimming or with suitable absorbents. If swallowed by local authorities and environment agencies sinking and or suitable dispersants may be used in non-confined waters.
Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.
See also section 4 "FIRST AID MEASURES" as well as Section 10 "STABILITY AND REACTIVITY".

SECTION 7 - HANDLING AND STORAGE

- **Storage Temperature (°C)** : between 10 to 40.
- **Transport Temperature (°C)** : between 10 to 40.
- **Loading/Unloading Temperature (°C)** : between 10 to 40.
- **Storage transport pressure** : Atmospheric.
- **Usual shipping containers** : Tanker tank cars, tank truck, drums, pails
- **Material and coating suitable** : Stainless steel, inorganic zinc coatings, amine epoxy coatings, nitrile rubber, rubber.
- **Material and coating unsuitable** : Compatibility with plastic material can vary we therefore recommended that compatibility is test prior to use.
- **Storage / Handling general notes** : Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool well-ventilated place away from incompatible materials.
- **Do not handle store or open near an open flame, sources of heat of sources of ignition protect material from direct sunlight**
- **Do not pressurize cut head or weld containers. Empty produce residue. Do not reuse empty containers without commercial cleaning or reconditioning.**

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering Control Measures / Ventilation** :
The use of local exhaust ventilation is recommended to control process emissions near the source. Provide mechanical ventilation of confined space, see respiratory protection recommendation.
- **Personal protection** :
For open systems where contact is likely, wear long sleeves, chemicals resistant gloves and chemicals goggles.
- **Where prolonged contact may occur. Wear long sleeves sand safety glasses with side shields.**



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➤ Where concentration in air may be exceedingly high and engineering, work practice or other means of exposure reduction are not adequate approve respirator may be necessary to prevent over-exposure by inhalation.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

➤ Product typical

NO.	PARAMETES	TEST METHODS	SPECIFICATION
1	Boiling Point (°C)	ASTM	97.3°C
2	Freezing Point (°C)	ASTM	-5°C
3	PH of concentrate	ASTM	9 +/- 0.5
4	Appearance	ASTM	Fluorescent green
5	Soluble in water	ASTM	This product is soluble in water
6	Specific Gravity (H ₂ O=1)	ASTM	-1.2
7	Density	ASTM	1.0

Attention : The data below are typical values and do not constitute a specification.

SECTION 10 - STABILITY AND REACTIVITY

- **Hazardous polymerization:** No.
- **Stability:** Stable.
- **Conditions to avoid instability:** Temperature above 60°C.
- **Materials and conditions to avoid incompatibility:** Water, strong oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

- **Acute Inhalation:** Negligible hazard at ambient (-18 to 38°C) or recommended blending temperature.
- **Skin Contact:** Low order of toxicity. May be slight irritating
- **Eye contact:** Slight irritating and may injure eye tissue if not removed promptly.
- **Ingestion:** Minimal toxicity.

SECTION 12 - DISPOSAL CONSIDERATIONS

The following advice only applies to the products as supplied. Combination with other material may well indicate another route of disposal. If in doubt contact the local supplier or authorities:

- **Empty drums should be taken for recycling, recovery or disposal through.**
- **A suitable qualified or licensed contractor.**



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- **Care should in any case to be taken to ensure compliance with national.**
- **And local regulations.**

The products are not suitable for disposal by either landfill or via municipal sewers drain natural stream or rivers. They will generate ash if burned and can be burned directly in appropriate equipment. The products are suitable for energy recovery in appropriate incinerators.

SECTION 13 - TRANSPORT INFORMATION

- **UN CLASS** : Not classified.
- **A DR / RID-Class** : Not classified.
- **A DR / RID-Hazard Identification Number** : Not classified.
- **IMDG-Class** : Not classified.
- **IATA-Class** : Not classified.

SECTION 14 - REGULATORY INFORMATION

- **Regulatory Information**

EC Classification: Not classified.
R phrases: Not classified.
S phrases: Not classified.
EC Annex Number: Not listed.
FDA List Number: Not listed.

SECTION 15 - OTHER INFORMATION

Heating for the product is usually not necessary expert in situations as described below. With proper facilities, no heating is required for pumping at ambient temperatures. If extreme cold weather conditions necessitate heating, then tempered water or oil not exceeding 100°C is recommended. If heated product temperature should be container above 60°C. Product should be stored between 10 and 40°C (40 to 100°F) . Lower temperatures may result in some crystallization of the product. Higher temperatures will lead to degradation of product quality.