

Material Safety Data Sheet

1 . Identification of the material and supplier

Product name Peak Long Life Antifreeze Coolant 33C

Other Names

Product use Radiator antifreeze, coolant

Supplier Peak Lubricants Pty Ltd
224- 230 South Gippsland Hwy
Dandenong
Victoria 3175

ABN 74887410101

Telephone (03) 9799 0977

EMERGENCY TELEPHONE NUMBER (03) 9799 0977

2 . Hazards identification

Statement of hazardous/dangerous nature

Classified as hazardous according to criteria of NOHSC
Not classified as dangerous goods

Risk Phrases

R 22 – Harmful if swallowed

R 36/37/38 - Irritating to eyes, respiratory system and skin.

Safety Phrases

S 20 When using, do not eat or drink

S 24/25 Avoid contact with skin and eyes

S 2 Keep out of the reach of children

3 . Composition/information on ingredients

Ingredient	CAS	Proportion
Ethylene Glycol	107-21-1	98-100 %

4 .First-aid measures

Skin contact

Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Eye contact

In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

5 . Fire-fighting measures

Extinguishing Media Suitable

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Protection of fire-fighters

Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Special fire-fighting procedures

None identified

Unusual fire/explosion Hazards

This material is not explosive as defined by established regulatory criteria.

Hazards from combustion products

These products are carbon oxides nitrogen oxides

6 . Accidental release measures

Emergency Procedures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures")

Methods and materials for containment and clean-up

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilt material with soil and prevent runoff entering surface waterways. See Section 13 for Waste Disposal Information.

7 . Handling and storage

Handling

Do not ingest. Wash thoroughly after handling.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Additional information-Storage

Combustible liquid Class C1 (AS 1940).

Product contaminated rags paper or material used to absorb spillages represent a fire hazard and should not be allowed to accumulate. Dispose of safely immediately after use.

8 . Exposure controls/personal protection

Ingredient name Occupational exposure limits

Ethylene glycol; ethanediol	NOHSC (Australia, 8/2005). Skin STEL: 104 mg/m ³ 15 minute(s). Form: Vapor STEL: 40 ppm 15 minute(s). Form: Vapor TWA: 10 mg/m ³ 8 hour(s). Form: Particulate TWA: 52 mg/m ³ 8 hour(s). Form: Vapor TWA: 20 ppm 8 hour(s). Form: Vapor
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Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Control Measures

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Biological Limit Values

No biological limit allocated.

Personal protective equipment

Hands

Wear protective gloves if prolonged or repeated contact is likely. Chemical resistant gloves. Recommended: Nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eyes

Safety glasses with side shields.

Skin and Body

None required; however, use of protective clothing is good industrial practice.

Respiratory system

None required; however, use of adequate ventilation is good industrial practice.

9 . Physical and chemical properties

Appearance	Green viscous liquid
Odour	None
pH:	7.5 to 8.5 (1% in water)
Vapour Pressure (mmHg @ 20°C):	0.06
Vapour Density (air = 1)	2.1
Boiling Point (°C):	197
Freezing/Melting Point (°C):	-13
Solubility in Water	Soluble in water, methanol, diethyl ether
Specific Gravity (g/ml @ 15°C):	1.115 – 1.145
Flashpoint (°C):	116.1 (Closed Cup)
Flammability Limits (%):	3.2 – 15.3
Auto Ignition Temperature (°C):	412

10 . Stability and reactivity

Hazardous polymerization

Will not occur

Stability

This product is stable

Conditions to Avoid

Keep away from fire, extreme heat, and oxidising compounds

Incompatibility with various substances/Hazardous Reactions

Reactive with oxidizing compounds

Hazardous Decomposition Products

These products are: carbon oxides, nitrogen oxides

11 . Toxicological information

Effects and symptoms

Eyes

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Skin

No significant health hazards identified.

Inhalation

No significant health hazards identified.

Ingestion

Harmful if swallowed.

Carcinogenic effects

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).

12 .Ecological information

Ecotoxicity

Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].

Biodegradability

The biodegradability of this material has not been determined.

Mobility

Spillages may penetrate the soil causing ground water contamination.

13 . Disposal considerations

Disposal Consideration / Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

14 .Transport information

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user

No known special precautions required. See Section: "Handling and storage" for additional information.

15 . Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

S 5

This material is a scheduled poison and must be stored, maintained and used in accordance with the relevant regulations.

Control of Scheduled Carcinogenic Substances

Ingredient name Schedule

No Listed Substance

Inventories**Other regulations**

Australia Regulations

Labelling requirements for SUSDP do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with NOSHC National Code of Practice for labelling of workplace substances.

16 . Other information

Prepared by Peak Technical Advice

Notice to reader

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Peak Lubricants.

Key to abbreviations

AMP = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.

ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail

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CAS Number = Chemical Abstracts Service Registry Number

HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.

ICAO = International Civil Aviation Organization.

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia

TWA = Time weighted average

STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.