

	<h1>Peak Lubricants</h1>
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Material Safety Data Sheet

1 . Identification of the material and supplier

Product name Heat Transfer Oil

Other Names

Product use

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

Product Name:
Heat Transfer Oil 32

Manufacturers Code: 7103

Worksafe Classification: Not Hazardous by Worksafe criteria
 Use: Thermal heating systems

Physical Description / Properties

Appearance: Light Amber Liquid
 Boiling Point: > 316 c
 Melting point: Not applicable
 Pour Point: - 12 c
 Viscosity @ 40 c , cst: 29-35
 Viscosity @ 100 c , cst: 5.4
 Vapour Pressure (mm of Hg at 25 c): < 0.1
 Specific Gravity: 0.86
 Flash Point: 225 c (IP 36/ ASTM D-92)
 Flammability Limits: LEL Not established, UEL Not established
 Solubility in water (g/L): Negligible

U.N. Number: Not applicable
 Hazchem Code: Not applicable
 DG Class / Sub Risk: Not applicable
 Poisons Schedule: Not applicable
 AS 1940 Class: C2

Odour: Mild
 Ph: Not applicable

3 . Composition/information on ingredients

REFINED PARRAFINIC MINERAL OILS CAS 64742-62-7 >95
OTHER INGREDIENTS < 5

All components are registered in accordance with the Australian Inventory of Chemical Substances .

HEALTH EFFECTS: No significant effects expected

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH

This product is not formulated to contain ingredients which have exposure limits established by regulatory agencies. It is not hazardous to health as defined by the Worksafe Australia criteria.

4 . First Aid Measures

ACUTE:

Swallowed :Practically non-toxic (LD50 : greater than 2000 mg/kg)

Eye: Practically non-irritating (Draize score : 0 to 6 or less)

Skin: Practically non-toxic (LD50 : greater than 2000 mg/kg) Practically non-irritating (Primary Irritation Index : greater than 0.5 but less than 3)

Inhaled: Not applicable

CHRONIC:

Refer to health effects above

Toxicity

Irritation

Oral

Dermal

Inhal

Eye

Skin

MATERIAL HAZARD CODE (MHC): 0* 0* NA 0* 1*

Assigned codes 0-4 with 0 indicating lowest MHC

Classification : NA = not applicable , NE = not established , C = corrosive

* indicates estimated code based on testing of similiar products and/or the components

FIRST AID:

Swallowed : Not expected to be a problem when ingested . If uncomfortable seek medical attention.

Eye : Flush thoroughly with water . If irritation persists , call a doctor .

Skin : Wash contact areas with water .

Inhaled : Not expected to be a problem , but move any effected person to fresh air .

ADVICE TO DOCTOR : Treat symptoms with reference to specific health effects identified above

5 . Fire-fighting measures

Extinguishing Media Suitable

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

Do not use water jet.

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

Carbon dioxide and carbon monoxide

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

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Store under cover away from heat and sources of ignition. Reference should be made to Australian Standard AS1940- The storage and handling of flammable and combustible liquids.

Additional information-Storage

Classified as combustible liquid Class C2 (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

Base oil - unspecified **NOHSC (Australia)**. TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral.

Whilst specific OELs for certain components are included in this data sheet, 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

Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.

Respiratory system

Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure level

9 . Physical and chemical properties

Flash point	225 °C
Colour	Amber
Physical state	Liquid
Density	0.86 kg/L
Solubility	Negligible
pH	Not applicable
Viscosity	29-35 cst @ 40°C

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

Carbon dioxide, carbon monoxide

11 . Toxicological information

Effects and symptoms

Eyes

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

Skin

Prolonged or repeated contact can de-fat the skin and lead to irritation and/or dermatitis.

Inhalation

Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

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

See section 7 of this data sheet for additional handling information

15 . Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

Ingredient name Schedule

No Listed Substance

Inventories

Other regulations

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

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

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.