



# **HEAT TRANSFER 32**

#### SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: HEAT TRANSFER 32
Product Use: Heat Transfer Oil
Supplier: Vertex Lubricants NZ
22 Marphona Crescent

Takanini 2105 Phone: 09/640 0004

Email: info@vertexlubricants.co.nz

**Emergency Number:** 0800 353 645

Chemical Nature: Distillates (petroleum), hydrotreated heavy paraffinic, solvent-dewaxed heavy

paraffinic

**Issue Date:** 16 July 2024 and is valid for 5 years from this date.

#### SECTION 2 - HAZARDS IDENTIFICATION

**HSNO Classification** Not classified.

This material is not classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification)

Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

**GHS label elements** 

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Other hazards which do not result in classification USED ENGINE OILS

Used engine oil may contain hazardous components which have the potential to cause skin

cancer.

See Toxicological Information, section 11 of this Safety Data Sheet.

#### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Ingredient name	% (w/w)	CAS number	
Distillates (petroleum), hydrotreated heavy paraffinic	≥60 - ≤75	64742-54-7	
Distillates (petroleum), hydrotreated heavy paraffinic	≥10 - ≤30	64742-54-7	
Distillates (petroleum), solvent-dewaxed heavy	≤3	64742-65-0	

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4 – FIRST AID MEASURES**

Description of necessary first aid measures

**Inhalation** If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation or rash occurs: Get

medical advice/attention.

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and

remove any contact lenses. Get medical attention.

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician**Treatment should in general be symptomatic and directed to relieving any effects. In case

of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

**Protection of first aiders** No action shall be taken involving any personal risk or without suitable training.

### **SECTION 5 – FIRE FIGHTING MEASURES**

**Extinguishing media** 

**Suitable** In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

**Not suitable** Do not use water jet.

Specific hazards arising

from the chemical

**Hazardous combustion** Combustion products may include the following:

products

carbon oxides (CO, CO2) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO2 etc.)

In a fire or if heated, a pressure increase will occur, and the container may burst.

Hazchem code

Not available

Special precautions for

firefighters

No action shall be taken involving any personal risk or without suitable training. Promptly

Special protective

isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and

equipment for fire-

full turnout gear.

fighters

# **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

**For non-emergency** If specialised clothing is required to deal with the spillage, take note of any information in

personnel Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

**For emergency** If specialised clothing is required to deal with the spillage, take note of any information in responders Section 8 on suitable and unsuitable materials. See also the information in "For non-

Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert material

and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water

courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste

disposal contractor.

#### **SECTION 7 – HANDLING AND STORAGE**

Precautions for safe

handling

Conditions for safe storage, including any incompatibilities

Put on appropriate personal protective equipment (see Section 8).

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent

leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

environmental contamination.

**Not suitable** Prolonged exposure to elevated temperature

### SECTION 8 – EXPOSURE CONTROLS AND PEROSNAL PROTECTION

## **Control parameters**

**Occupational exposure limits** 

<u>Ingredient name</u>	Exposure limits		
Distillates (petroleum), hydrotreated heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016.		
	Workplace exposure standards (WES)		
	(New Zealand). [Oil mineral]		
	WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/		
	Revised: 6/2016 Form: Mist		
	WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/		
	Revised: 9/2010 Form: Mist		
Distillates (petroleum), hydrotreated heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016.		
	Workplace exposure standards (WES)		
	(New Zealand). [Oil mineral]		
	WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/		
	Revised: 6/2016 Form: Mist		
	WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/		
	Revised: 9/2010 Form: Mist		
Distillates (petroleum), solvent-dewaxed heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016.		
	Workplace exposure standards (WES)		
	(New Zealand). [Oil mineral]		
	WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/		
	Revised: 6/2016 Form: Mist		
	WES-STEL: 10 mg/m³ 15 minutes. Issued/		
	Revised: 9/2010 Form: Mist		

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# **Biological exposure indices** No exposure indices known

Recommended monitoring procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposure is adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### Individual protection measures

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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection Hand protection Safety glasses with side shields.

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depend 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.

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Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Skin protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

# **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state Liquid.

ColourAmber. [Light]OdourUnfragranced [Slight]pHNot applicable.Melting point/freezingNot available.

point

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**Boiling point, initial** 

Not available.

boiling

point, and boiling range

Drop Point N

Not available.

Flash point Closed cup: >200°C (>392°F) [Pensky-Martens ASTM D 93]

# **Auto-ignition temperature**

Ingredient name	°C	°F	Method
bis(nonylphenyl)amine	440	824	EU A.15

#### Vapour pressure

Ingradiant name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum),						
hydrotreated heavy	<0.07501	<0.01	ASTM D 5191			
paraffinic						
Distillates (petroleum),						
hydrotreated heavy	<0.07501	<0.01	ASTM D 5191			
paraffinic						
Distillates (petroleum),						
solvent-dewaxed heavy	<0.07501	<0.01	ASTM D 5191			
paraffinic						
bis(nonylphenyl)amine	<0.01	<0.0013	EU A.4	0.0019	0.00025	EU A.4

Relative vapour density

Not available.

Density

<1000 kg/m³ (<1 g/cm³) at 15°C

## Solubility(ies)

	Media	Result
Ī	water	Not soluble

Viscosity

Kinematic: 32 cSt at 40°C

Kinematic: 5.34 cSt at 100°C (ASTM D 445)

# Particle characteristics

Median particle size Not applicable.

### **SECTION 10 – STABILITY AND REACTIVITY**

Chemical stability

The product is stable.

Possibility of hazardous

Under normal conditions of storage and use, hazardous reactions will not occur. Under

Under normal conditions of storage and use, hazardous decomposition products should

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reactions normal conditions of storage and use, hazardous polymerisation will not occur.

**Conditions to avoid** 

Avoid all possible sources of ignition (spark or flame).

Incompatible materials
Hazardous decomposition

Reactive or incompatible with the following materials: oxidising materials.

products

not be produced.

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# **SECTION 11 – TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

**Ingestion** No known significant effects or critical hazards.

**Skin contact** Defatting to the skin. May cause skin dryness and irritation.

**Eye contact** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

**Eye contact** No specific data.

#### Potential chronic health effects

General USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of

personal hygiene maintained.

**Inhalation** Not applicable.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Eye contact
No known significant effects or critical hazards.
Carcinogenicity
No known significant effects or critical hazards.
Mutagenicity
No known significant effects or critical hazards.
Teratogenicity
No known significant effects or critical hazards.
Developmental effects
No known significant effects or critical hazards.
Fertility effects
No known significant effects or critical hazards.

# Aspiration hazard

Name

Distillates (petroleum), hydrotreated heavy paraffinic

# **SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity** No known significant effects or critical hazards.

# Persistence and degradability

Expected to be biodegradable.

# **Bioaccumulative potential**

This product is not expected to bioaccumulate through food chains in the environment.

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## Mobility in soil

Mobility Soil/water partition

coefficient (KOC)

Other ecological

information

Spillages may penetrate the soil causing ground water contamination.

Not available.

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen

transfer could also be impaired.

### SECTION 13 – DISPOSAL CONSIDERATION

## **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### SECTION 14 – TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
New Zealand Class	Not regulated.	-	-	-		-
ADG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

PG\*: Packing group

#### SECTION 15 - REGULATORY INFORMATION

# **New Zealand Regulatory Information**

**HSNO** Approval Number None assigned. **HSNO** Group Standard None assigned. **HSNO** Classification None assigned.

#### Regulation according to other foreign laws

**REACH Status** For the REACH status of this product please consult your company contact, as

identified in Section 1.

**United States inventory** 

(TSCA 8b)

All components are active or exempted.

Australia inventory (AIIC) All components are listed or exempted. Canada inventory status All components are listed or exempted. China inventory (IECSC) At least one component is not listed. Japan inventory (CSCL) At least one component is not listed.

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Korea inventory (KECI) Philippines inventory

(PICCS)

Taiwan Chemical Substances Inventory (TCSI) All components are listed or exempted. At least one component is not listed.

All components are listed or exempted.

## **SECTION 16 – OTHER INFORMATION**

### Date of issue/Date of revision

16 July 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.

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