

Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

Parker Hannifin Corporation -Sporlan Division 206 Lange Drive Washington, MO, U.S.A., 63090 Telephone: (636) 239 1111

VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 1 of 10

# SAFETY DATA SHEET

# SECTION 1. IDENTIFICATION

Product identifier used on the label

Guardian VG-4 Refridgeration Oil

Other means of identification: VG-4-MO-Q (P/N 475343), VG-4-MO-1 (P/N 475346), VG-4-MO-5 (P/N 475376),

VG-4-MO-55 (P/N 475380)

Recommended use of the chemical and restrictions on use

: Lubricant

Use pattern: Professional Use Only Restriction on use: None known

**Chemical family** : Petroleum hydrocarbon

Name, address, and telephone number

of the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive Washington, MO, U.S.A.

63090

Supplier's Telephone # 24 Hr. Emergency Tel # (636) 239-1111

Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887

(Outside U.S.).

#### SECTION 2. HAZARDS IDENTIFICATION

# Classification of the chemical

Clear to light yellow. Petroleum odor.

Most important hazards: Occupational exposure to the substance or mixture may cause adverse effects. Refer also to TOXICOLOGICAL INFORMATION (Section 11).

This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) and Canadian WHMIS regulations (Hazardous Products Regulations).

Physical Hazards Not Otherwise Classified (PHNOC) :Not applicable Health Hazards Not Otherwise Classified (HHNOC): Not applicable

#### Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not required

Hazard statement(s)

None required.

Precautionary statement(s)

None required.

#### Other hazards

Other hazards which do not result in classification: May cause slight eye and skin irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

Parker Hannifin Corporation -Sporlan Division 206 Lange Drive Washington, MO, U.S.A., 63090 Telephone: (636) 239 1111

VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 2 of 10

### SAFETY DATA SHEET

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

#### Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Distillates (petroleum), hydrotreated heavy naphthenic	Distillates, petroleum, hydrotreated heavy naphthenic	64742-52-5	>90
Additives	Not available.	Proprietary	Proprietary

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

# **SECTION 4. FIRST-AID MEASURES**

### Description of first aid measures

*Ingestion*: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Get medical attention if symptoms persist.

*Inhalation*: Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel

only. If breathing has stopped, give artificial respiration. If irritation or symptoms

develop, seek medical attention.

Skin contact: IF ON SKIN: Wash with water and soap as a precaution. If skin irritation occurs: Get

medical advice/attention.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Flush eyes with water for at least 15

minutes. If eye irritation persists: get medical advice/attention.

# Most important symptoms and effects, both acute and delayed

: May be mildly irritating to eyes and skin. Symptoms may include mild redness and swelling. Oils can block the skin pores causing an acne-like disorder. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of respiratory tract. Symptoms may include sore throat, running nose and shortness of breath.

#### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

# SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Do not use water jet, as this may spread burning material.

# Special hazards arising from the substance or mixture / Conditions of flammability

: Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

#### Flammability classification (OSHA 29 CFR 1910.106)

: Non-flammable.

# **Hazardous combustion products**

: Nitrogen oxides (NOx) ;Carbon oxides ;Sulfur oxides ;Phosphorus oxides ;Zinc oxide

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters



VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 3 of 10

Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

# SAFETY DATA SHEET

Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

#### Special fire-fighting procedures

Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Prevent fire extinguishing water from contaminating surface water or the ground water system. Dike for water control.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions**: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

# Methods and material for containment and cleaning up

: Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.

#### Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None.

# SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

: Wear suitable protective equipment during handling. Use with adequate ventilation. Avoid breathing fumes or mists. Use non-sparking tools. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Keep containers closed when not in use. Wash thoroughly after handling. Bond and ground transfer containers and equipment to avoid static accumulation.

# Conditions for safe storage :

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Incompatible materials

: Oxidizing agents.

# SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TLV OSHA PEL			
	<u>TWA</u>	STEL	<u>PEL</u>	STEL
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m³ (As 'Oil mist, mineral')	N/Av	5 mg/m³ (As 'Oil mist, mineral')	N/Av
Additives	N/Av	N/Av	N/Av	N/Av



VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 4 of 10

#### Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

# **Exposure controls**

Ventilation and engineering measures

: Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical

and ventilating equipment.

Respiratory protection : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should

SAFETY DATA SHEET

be sought from respiratory protection specialists.

**Skin protection**: Gloves impervious to the material are recommended. Advice should be sought from

glove suppliers.

**Eye / face protection**: Safety goggles or glasses as appropriate for the job.

Other protective equipment : Where extensive exposure to product is possible, use resistant coveralls, apron and

boots to prevent contact. Ensure that eyewash stations and safety showers are close to

the workstation location.

General hygiene considerations

: Avoid breathing fumes or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and

wash contaminated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid.
Colour : Yellow.

Odour threshold : Petroleum odor.
Odour threshold : Not available.
pH : Not available.
Melting Point/Freezing point : Not available.

Initial boiling point and boiling range

: >230°C (446°F)

Flash point : >225°C (437°F)

Flashpoint (Method) : Pensky Martens Closed Cup

Evaporation rate (BuAe = 1) : Not available.

Flammability : Not flammable.

Lower explosion or flammability limit (% by vol.)

: Not available.

Upper explosion or flammability limit (% by vol.)

: Not available.

Oxidizing properties: Not applicableExplosive properties: Not applicable.Vapour pressure: <0.1 mmHg</th>

Relative vapour density : >1
Relative density / Specific gravity

: 0.84-0.87

Solubility in water : insoluble
Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: >20

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : >20.6 cSt - 320 cSt @ 40°C

Particle characteristics : Not applicable.

Volatiles (% by weight) : Nil



Guardian VG-4 Refridgeration Oil

VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 5 of 10

#### SAFETY DATA SHEET

**Volatile organic Compounds (VOC's)** 

: Not available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

SDS Revision Date (mm/dd/yyyy): 10/02/2025

Other physical/chemical comments

: Not applicable

#### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

: Hazardous polymerization will not occur.

Conditions to avoid : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in

areas without adequate ventilation.

Incompatible materials : Oxidizers
Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure:

 $\begin{tabular}{lll} \textbf{Routes of entry inhalation} & : & YES \\ \textbf{Routes of entry skin \& eye} & : & YES \\ \textbf{Routes of entry Ingestion} & : & YES \\ \textbf{Routes of exposure skin absorption} \\ \end{tabular}$ 

: NO

#### **Potential Health Effects:**

#### Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: If product is heated or mists are formed, inhalation may cause irritation to the nose,

throat and respiratory tract.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May

cause irritation of mouth, throat, and stomach.

Sign and symptoms skin : Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes : May cause mild irritation, redness and watering.

**Potential Chronic Health Effects** 

: Oils can block the skin pores causing an acne-like disorder.

**Mutagenicity**: Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

**Sensitization to material**: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: This material is not classified as hazardous under U.S. OSHA regulations (29 CFR

1910.1200) and Canadian WHMIS regulations (Hazardous Products Regulations).



VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 6 of 10

# **Guardian VG-4 Refridgeration Oil**

SDS Revision Date (mm/dd/yyyy): 10/02/2025

# SAFETY DATA SHEET

### Medical conditions aggravated by overexposure

: Not available.

Synergistic materials

: Not available.

Toxicological data

: See below for toxicological data on the substance.

	LC <sub>50</sub> (4hr)	LD <sub>50</sub>			
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)		
Distillates (petroleum), hydrotreated heavy naphthenic	> 5 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg		
Additives	N/Av	N/Av	N/Av		

#### Other important toxicological hazards

: Not applicable

# SECTION 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

# Ecotoxicity data:

<u>Ingredients</u>	040#	Toxicity to Fish				
	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 5000 mg/L (Rainbow trout)	N/Av	None.		
Additives	Proprietary	N/Av	N/Av	N/Av		

<u>Ingredients</u>	CAS#	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L (Daphnia magna)	N/Av	None.		
Additives	Proprietary	N/Av	N/Av	N/Av		

<u>Ingredients</u>	CAS#	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L/96hr (Green algae)	N/Av	None.		
Additives	Proprietary	N/Av	N/Av	N/Av		

# Persistence and degradability

: Inherently biodegradable.



Guardian VG-4 Refridgeration Oil

VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

SDS Revision Date (mm/dd/yyyy): 10/02/2025

Page 7 of 10

# SAFETY DATA SHEET

**Bioaccumulation potential**: The product itself has not been tested.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	>20	N/Av
Additives (CAS Proprietary)	N/Av	N/Av

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: Not applicable

# SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal

- : Handle waste according to recommendations in Section 7.
- : Dispose in accordance with all applicable federal, state, provincial and local

regulations.

**RCRA** 

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

#### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	none	$\otimes$
49CFR/DOT Additional information	None.			I	
TDG	None.	Not regulated.	Not regulated	none	$\otimes$
TDG Additional information	None.	!			
ICAO/IATA	None.	Not regulated.	Not regulated	none	$\otimes$
ICAO/IATA Additional information	None.				_
IMDG	None.	Not regulated.	not regulated	none	$\otimes$
IMDG Additional information	None.		!		



VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 8 of 10

#### Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

# SAFETY DATA SHEET

**Special precautions for user**: Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture,

according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

# **SECTION 15 - REGULATORY INFORMATION**

# **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

	TSCA TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS#	Quantity(RQ) (40 Su	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de Minimis Concentration		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Yes	N/Ap	N/Av	No	Yes	
Additives	Proprietary	No	None.	None.	No	No	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

#### **US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	No	N/Ap	No	No	No	No	No	No
Additives	Proprietary	No	N/Ap	No	No	No	No	No	No

# **Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

# **International Information:**

Components listed below are present on the following International Inventory list:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	Present	Present	(9)-1689	KE-12543	Present	No information available.
Additives	Proprietary	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av

### SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act



VG-4 MO -1, VG-4 MO-5, VG-4 MO-55

Page 9 of 10

#### Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

# SAFETY DATA SHEET

of 1980

CFR: Code of Federal Regulations DOT: Department of Transportation EPA: Environmental Protection Agency

IARC: International Agency for Research on Cancer MSHA: Mine Safety and Health Administration

N/Ap: Not Applicable N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & References

Biological Exposure Indices

2. ECHA - European Chemical Agency

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases

4. Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists

6. California Proposition 65 List

7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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: 03/20/2020

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: 02/10/2025

Revision No. : 3

**Revision Information** : 2. HAZARDS IDENTIFICATION 9. PHYSICAL AND CHEMICAL PROPERTIES

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

# Prepared for:

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#### **DISCLAIMER**

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Guardian VG-4 Refridgeration Oil

SDS Revision Date (mm/dd/yyyy): 10/02/2025

VG-4 MO -1, VG-4 MO-5, VG-4 MO-55 Page 10 of 10

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