



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

Guardian VPOE32-3MAF

VPOE32-3MAFQ, VPOE32-3MAFG, VPOE32-3MAFP, VPOE32-3MAFD

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

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **Guardian VPOE32-3MAF**

**Other means of identification** : VPOE32-3MAFQ (P/N 475429), VPOE32-3MAFG (P/N 475415), VPOE32-3MAFP (P/N 475419), VPOE32-3MAFD (P/N 475420)

**Recommended use of the chemical and restrictions on use**

: Refrigeration and air conditioning  
Use pattern: Professional Use Only  
Restriction on use: None known

**Chemical family**

: Mixture

**Name, address, and telephone number of the supplier:**

**Parker Hannifin Corporation - Sporlan Division**

206 Lange Drive  
Washington, MO, U.S.A.  
63090

Supplier's Telephone # : (306)-272-6284 (Mon-Fri 8am-5pm CST)

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Clear liquid. Ester-like 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)*

Not required

*Precautionary statement(s)*

Not required

**Other hazards**

Other hazards which do not result in classification:

May cause eye, skin and respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Proprietary Fatty Acid Ester	Not available.	N/Av	<80
Additives	Not available.	Not applicable. Mixture	0.0 - 20.0

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* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention if symptoms develop and persist.
- Inhalation* : Move to fresh air in case of accidental inhalation of vapours. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a physician if irritation persists.
- 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

- : Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause respiratory irritation.

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

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

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

- : Not classified as flammable. Burning produces obnoxious and toxic fumes.

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

- : Not classified as flammable.

#### Hazardous combustion products

- : Carbon oxides ;Nitrogen oxides ;Sulfur oxides ;Oxides of phosphorus ;Zinc oxide

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. 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.



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### 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.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

### Methods and material for containment and cleaning up

- : Eliminate all ignition sources. Ventilate area of release. Stop spill or leak at source if safely possible. 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).

### 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).  
EPA/CERCLA Reportable quantity (RQ): None.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing mist, vapors or spray. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flames. Do not puncture or incinerate containers. Keep away from incompatibles. Wash thoroughly after handling.

**Conditions for safe storage** : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

**Incompatible materials** : Strong oxidizing agents

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>			
<b><u>Chemical Name</u></b>	<b><u>ACGIH TLV</u></b>		<b><u>OSHA PEL</u></b>
	<b><u>TWA</u></b>	<b><u>STEL</u></b>	<b><u>PEL</u></b> <b><u>STEL</u></b>
Proprietary Fatty Acid Ester	N/Av	N/Av	N/Av      N/Av
Additives	N/Av	N/Av	N/Av      N/Av

### Exposure controls

#### Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

**Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.

**Skin protection** : Wear protective gloves. Advice should be sought from glove suppliers.

**Eye / face protection** : If splashing might occur, wear eye protection such as safety glasses with side shields.



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**Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**

- : Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist, vapors or spray. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Wash hands thoroughly after using this product, and before eating, drinking or smoking.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : Liquid.  
**Colour** : Clear  
**Odour** : Ester-like odor.  
**Odour threshold** : Not available.  
**pH** : Not available.  
**Melting Point/Freezing point** : Not available.

**Initial boiling point and boiling range**

: Not available.  
**Flash point** : > 225°C (437°F)  
**Flashpoint (Method)** : ASTM D92  
**Evaporation rate (BuAe = 1)** : Not applicable.  
**Flammability** : Not applicable.  
**Lower explosion or flammability limit (% by vol.)** : Not available

**Upper explosion or flammability limit (% by vol.)**

: Not available.  
**Oxidizing properties** : Not applicable  
**Explosive properties** : Not applicable.  
**Vapour pressure** : < 0.1mm Hg  
**Relative vapour density** : > 1  
**Relative density / Specific gravity** : 0.9-0.97

**Solubility in water** : Slightly soluble.  
**Other solubility(ies)** : Not available.

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

: Not available.  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : Not available.  
**Viscosity** : >20.6 cSt-320 cSt  
**Particle characteristics** : Not applicable.  
**Volatiles (% by weight)** : Not available.

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

: Not applicable.

**Absolute pressure of container**

: Not applicable.

**Flame projection length** : Not applicable.

**Other physical/chemical comments**

: Not applicable

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.



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**Chemical stability** : Stable under the recommended storage and handling conditions prescribed.  
**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.  
**Conditions to avoid** : Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.  
**Incompatible materials** : Strong oxidizers.  
**Hazardous decomposition products** : None known. None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES  
**Routes of exposure skin absorption** : NO

#### Potential Health Effects:

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

###### *Sign and symptoms Inhalation*

: Inhalation of vapours or mists may cause irritation to the nose, throat and upper respiratory tract.

###### *Sign and symptoms ingestion*

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

###### *Sign and symptoms skin*

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

###### *Sign and symptoms eyes*

: Direct eye contact may cause slight or mild, transient irritation.

##### Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

**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).

##### Medical conditions aggravated by overexposure

: Not available.

**Synergistic materials** : Not available.

**Toxicological data** : See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Proprietary Fatty Acid Ester	N/Av	N/Av	N/Av
Additives	N/Av	N/Av	N/Av



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### Other important toxicological hazards

: Not applicable

## SECTION 12. ECOLOGICAL INFORMATION

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

### Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Proprietary Fatty Acid Ester	N/Av	N/Av	N/Av	N/Av
Additives	Not applicable. Mixture	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Proprietary Fatty Acid Ester	N/Av	N/Av	N/Av	N/Av
Additives	Not applicable. Mixture	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Proprietary Fatty Acid Ester	N/Av	N/Av	N/Av	N/Av
Additives	Not applicable. Mixture	N/Av	N/Av	N/Av

### Persistence and degradability

: Not readily biodegradable.

### Bioaccumulation potential

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Proprietary Fatty Acid Ester (CAS N/Av)	N/Av	N/Av
Additives (CAS Not applicable. Mixture)	N/Av	N/Av

**Mobility in soil** : No data is available on the product itself.

### Other Adverse Environmental effects

: No data is available on the product itself.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Handling for Disposal

: Handle waste according to recommendations in Section 7. Do not puncture or incinerate containers.



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**Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.  
**RCRA** : Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

### SECTION 14. TRANSPORT INFORMATION

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

**Special precautions for user** : None known or reported by the manufacturer.

**Environmental hazards** : This substance does not meet the criteria for an environmentally hazardous substance 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:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	de Minimis Concentration
Proprietary Fatty Acid Ester	N/Av	Yes	None.	None.	No	N/Ap
Additives	N/Ap	Yes	None.	None.	No	No



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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
Proprietary Fatty Acid Ester	N/Av	No	N/Ap	No	No	No	No	No	No
Additives	applicable. Mi	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:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Proprietary Fatty Acid Ester	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
Additives	applicable. Mi	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  
AIHA: American Industrial Hygiene Association  
CAS: Chemical Abstract Services  
IARC: International Agency for Research on Cancer  
LC: Lethal Concentration  
LD: Lethal Dose  
MSHA: Mine Safety and Health Administration  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average

### References

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