



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

Pipe Saver

PS1;PS55

SDS Preparation Date (dd/mm/yyyy): 16/10/2024

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended. This safety data sheet complies with the requirements of UK REACH Regulation.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : Pipe Saver

Product Code(s) : PS1 (P/N 475000); PS55 (P/N 475004)

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Antifreeze-Refrigeration and air conditioning
Use pattern: professional use
Restriction on use: None known

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Corporation - Sporlan Division

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

Telephone : (636) 239 1111

1.4 Emergency Telephone Number

: In case of transportation emergencies: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Poisons Information Centre
The United Kingdom NHS 111
France +33383852192
Germany +493018412-0
Spain +34917689800
Poland +48422538400
Italy
06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza - Roma) 800
183459 (Az. Osp. Univ. Foggia - Foggia)
081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)
06 49978000 (CAV Policlinico "Umberto I" - Roma)
06 3054343 (CAV Policlinico "A. Gemelli" - Roma)
055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)
0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02
66101029 (Osp. Niguarda Ca' Granda - Milano)
800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

1.5 National Contact

: +001 (636) 239-1111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Blue liquid. Bland odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

EUH066 - Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Hazard pictogram(s)



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None required.

Hazardous components which must be listed on the label
None required.

Signal word

No signal word

Hazard statements

None required according to Regulation (EC) No. 1272/2008. :

Precautionary statements

None required according to Regulation (EC) No. 1272/2008. :

2.3 Other hazards

Toxic fumes, gases or vapours may evolve on burning. Prolonged or repeated skin contact may cause drying, cracking, or redness or irritation. May cause mild respiratory irritation at higher temperatures. May cause gastrointestinal irritation.

Endocrine disrupting properties: None.

PBT assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Mixture

Substance name	<u>CAS No</u>	<u>EC No.</u>	<u>Reach Registration No.</u>	<u>% Weight</u>	<u>Classification according to Regulation (EC) nr. 1272/2008</u>	<u>SCL, M-factor, ATE</u>
Propylene glycol	57-55-6	200-338-0	Not available	80.0 - 100.0	not hazardous	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation : If inhaled, 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 : For skin contact, wash with soap and water while removing contaminated clothing. If skin irritation occurs, get medical attention.

Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: get medical advice/attention.

4.1.2 Self-protection for the first aider



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: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: May cause mild skin irritation.
May cause mild respiratory irritation at higher temperatures. May cause coughing and breathing difficulties.
If material is ingested, may cause irritation to mucous membranes. May cause nausea, stomach pain and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 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

: Water may cause spattering of hot material and may spread burning.

5.2 Special hazards arising from the substance or mixture

: Not considered flammable but may burn at high temperatures. Toxic fumes, gases or vapours may evolve on burning.

5.3 Advice 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. 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. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Keep people away from and upwind of spill/leak. Wear appropriate protective equipment. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Vacuum or sweep up spilled material using a method that does not generate airborne dust. Keep in properly labelled containers. Contact the proper local authorities.

6.4 Reference to other sections

: Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.



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7.2 Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles.

7.3 Specific end use(s)

- : Antifreeze

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

Chemical Name	Exposure Limits	Type	Notes
Propylene glycol	N/Av	European Union (OEL)	N/Av
	150 ppm (474 mg/m ³) (total particulate and vapour); 10 mg/m ³ (particulate) (TWA)	The United Kingdom (WELs)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL)

workers inhalation local effects long term exposure 10 mg/m³ ; general population inhalation local effects long term exposure 10 mg/m³ ; general population inhalation systemic effects long term exposure 50 mg/m³ ; workers inhalation systemic effects long term exposure 168 mg/m³

Predicted No Effect Concentration (PNEC)

260 mg/L (freshwater); 26 mg/L (marine water); 183 mg/L (freshwater (intermittent releases)); 572 mg/kg (sediment (freshwater)); 57.2 mg/kg (sediment (marine water)); 20000 mg/L (sewage treatment); 50 mg/kg (soil)

8.2 Exposure controls

Ventilation and engineering measures

- : Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : In case of insufficient ventilation wear suitable respiratory equipment. Seek advice from respiratory protection specialists.

Skin protection

- : Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection

- : Wear safety goggles or glasses as appropriate for the job. See also EN 166.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

- : Avoid release to the environment.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: blue
Odour	: Bland odour.
Odour threshold	: Not available.
pH	: Not available.
Flash point	: >100°C
Flashpoint (Method)	: Closed cup
Lower flammable limit (% by vol.)	: Not available.
Upper flammable limit (% by vol.)	: Not available.
Auto-ignition temperature	: 371.11°C
Decomposition temperature	: Not available.
Oxidizing properties	: Not applicable
Explosive properties	: Not explosive
Initial boiling point and boiling range	: >100°C
Melting/Freezing point	: <-51.1°C
Relative density	: 1.11
Solubility in water	: Slightly soluble.
Other solubility(ies)	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Viscosity	: 15 cps
Evaporation rate (BuAe = 1)	: Not available.
Particle characteristics	: Not applicable

9.2 Other Information

Volatiles (% by weight)	: Not available.
Volatile organic Compounds (VOC's)	: 857 g/L (7.15 lbs/gal)
Other physical/chemical comments	: Not available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: Not normally reactive.
10.2 Chemical stability	: Stable under normal conditions.
10.3 Possibility of hazardous reactions	: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.



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10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents

10.6 Hazardous decomposition products

: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.
According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.

Germ cell mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Reproductive toxicity : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.

STOT-single exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Routes of exposure : Inhalation
Ingestion
Eye contact
Skin contact

Effects of acute exposure : Direct eye contact may cause slight or mild, transient irritation.
Direct skin contact may cause slight or mild, transient irritation.
May cause mild respiratory irritation at higher temperatures.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects

: Prolonged or repeated contact may cause redness, drying and itching of the skin (dermatitis).

11.1.1 Acute Toxicity

Toxicological data : Not classified for acute toxicity based on available data. No data is available on the product itself.

See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	LC₅₀(4hr)	LD₅₀	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Propylene glycol	> 158 mg/L (aerosol)	21 800 mg/kg	20 800 mg/kg

11.2 Information on other Hazards

: Not applicable

11.2.1 Endocrine disrupting properties :Not applicable

11.2.2 Other hazards :Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : 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>	CAS No	Toxicity to Fish		
		LC₅₀ / 96h	NOEC / 21 day	M Factor
Propylene glycol	57-55-6	46 500 mg/L (Fathead minnow)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC₅₀ / 48h	NOEC / 21 day	M Factor
Propylene glycol	57-55-6	43 500 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC₅₀ / 96h or 72h	NOEC / 96h or 72h	M Factor
Propylene glycol	57-55-6	19 000 mg/L/96hr (Green algae)	N/Av	None.

12.2 Persistence and degradability

: Not readily biodegradable.

12.3 Bioaccumulation potential

: See the following data for ingredient information.

Components

Partition coefficient n-octanol/water (log K_{ow})

Bioconcentration factor (BCF)

Propylene glycol (CAS 57-55-6)

- 1.41 to - 0.3

<1 dimensionless

12.4 Mobility in soil : Not available.

12.5 Results of PBT and vPvB assessment

: This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).



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12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way. Empty containers retain residue and can be dangerous. Follow labeled warnings even after container is emptied.

Methods of Disposal : According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ADR/RID	None.	not regulated	not regulated	none	
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.



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SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- : Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2023/707].

Authorisations:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
None of the components are specifically listed.

Restrictions on use:

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended
None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:
None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:
None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:
None of the components are specifically listed.

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1

15.2 Chemical safety assessment

- : A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

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Regulation and Procedure

:

not regulated; Expert judgement

H-phrases (full-text)

Not applicable.

Other special considerations for handling

- : Provide adequate information, instruction and training for operators.



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