



Pipe Saver

PS1; PS5; PS55

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **Pipe Saver**

**Product Code(s)** : PS1 (P/N 475000); PS5 (P/N 475003); PS55 (P/N 475004)

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

: Antifreeze - Refrigeration and air conditioning.

**Chemical family**

: Glycol based fluid.

**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 # : (636)239-1111

**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**

WHMIS information: This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

**Label elements**

The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):

*Signal Word*

Not required

*Hazard statement(s)*

Not required

*Precautionary statement(s)*

Not required

The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):

This product is not a WHMIS controlled product in Canada. As such, this product does not require a WHMIS Supplier label.

**Other hazards**

Other hazards which do not result in classification :

Burning produces obnoxious and toxic fumes. May be mildly irritating to skin, eyes and respiratory system. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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| <u>Chemical name</u> | <u>CAS #</u> | <u>Concentration</u> |
|----------------------|--------------|----------------------|
| Propylene glycol     | 57-55-6      | 80.0 - 100.0         |

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Call a physician.
- 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. Obtain medical attention if symptoms develop and persist.
- Skin contact* : Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

#### Most important symptoms and effects, both acute and delayed

- : May cause mild eye irritation. Symptoms may include stinging and tearing. May cause mild skin irritation. Symptoms may include mild redness and swelling. May cause respiratory irritation. In high concentrations, symptoms may include sore throat, sneezing, coughing and shortness of breath. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### 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 a solid water stream as it may scatter and spread fire.

#### 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 build up pressure when exposed to heat and flame. Vapours are heavier than air and may spread along floors.

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

- : Not flammable.

#### Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:

- : Not expected to be sensitive to mechanical impact or static discharge.

#### Hazardous combustion products

- : Carbon oxides; phosphorus oxides.

#### 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.

*Special fire-fighting procedures*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.



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### 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. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

**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 spill or leak at source if safely possible. 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). Contact the proper local authorities.

#### 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

- : Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

**Incompatible materials** : Oxidizing agents; Acids.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

| <u>Chemical Name</u> | <u>ACGIH TLV</u>      |             | <u>OSHA PEL</u> |             |
|----------------------|-----------------------|-------------|-----------------|-------------|
|                      | <u>TWA</u>            | <u>STEL</u> | <u>PEL</u>      | <u>STEL</u> |
| Propylene glycol     | *10 mg/m <sup>3</sup> | N/Av        | N/Av            | N/Av        |

\*Note: The ACGIH TLV listed above for Propylene glycol is an AIHA WEEL.

#### Exposure controls

##### Ventilation and engineering measures

- : Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

**Respiratory protection** : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

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

**Eye / face protection** : Chemical goggles are recommended when there is a potential for splashing.



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**Other protective equipment** : Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : blue  
**Odour** : Bland odour.  
**Odour threshold** : N/Av  
**pH** : 11  
**Melting/Freezing point** : < - 51.1°C (< - 60F) (Propylene glycol)  
**Initial boiling point and boiling range** : > 100°C (> 212°F)  
**Flash point** : > 100°C (> 212°F)  
**Flashpoint (Method)** : Setaflash Closed Tester  
**Evaporation rate (BuAe = 1)** : > 1  
**Flammability (solid, gas)** : Not applicable.  
**Lower flammable limit (% by vol.)** : N/Av  
**Upper flammable limit (% by vol.)** : N/Av  
**Oxidizing properties** : None known.  
**Explosive properties** : Not explosive  
**Vapour pressure** : N/Av  
**Vapour density** : N/Av  
**Relative density / Specific gravity** : 1.11  
**Solubility in water** : miscible  
**Other solubility(ies)** : None known.  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av  
**Auto-ignition temperature** : 371.11°C (700°F) (Propylene glycol)  
**Decomposition temperature** : N/Av  
**Viscosity** : 15 cps  
**Volatiles (% by weight)** : N/Av  
**Volatile organic Compounds (VOC's)** : 857 g/L (7.15 lbs/gal)  
**Absolute pressure of container** : N/Av  
**Flame projection length** : N/Av  
**Other physical/chemical comments** : None.

### 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 excessive heat, sparks and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.
- Incompatible materials** : Oxidizing agents; Acids.
- Hazardous decomposition products** : 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*

- : 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 irritate digestive tract and cause nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

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

- : Direct skin contact may result in little or no irritation.

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

- : May cause 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.

##### Senitization to material

- : Not expected to be a skin or respiratory sensitizer.

##### Specific target organ effects

- : The substance or mixture is not classified as specific target organ toxicant, single exposure.  
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### Irritancy

- : Slightly irritating.

##### Medical conditions aggravated by overexposure

- : None known.

##### Synergistic materials

- : Not available.

##### Toxicological data

- : See below for individual ingredient acute toxicity data.



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| <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> |
| Propylene glycol     | N/Av                        | 21800 mg/kg            | 20800 mg/kg             |

**Other important toxicological hazards**  
 : None known.

#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Do not allow material to contaminate ground water system. See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

| <u>Ingredients</u> | <u>CAS No</u> | <u>Toxicity to Fish</u> |                      |                 |
|--------------------|---------------|-------------------------|----------------------|-----------------|
|                    |               | <u>LC50 / 96h</u>       | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Propylene glycol   | 57-55-6       | > 18 000 mg/L           | N/Av                 | None.           |

| <u>Ingredients</u> | <u>CAS No</u> | <u>Toxicity to Daphnia</u> |                           |                 |
|--------------------|---------------|----------------------------|---------------------------|-----------------|
|                    |               | <u>EC50 / 48h</u>          | <u>NOEC / 21 day</u>      | <u>M Factor</u> |
| Propylene glycol   | 57-55-6       | > 18 000 mg/L              | No information available. | None.           |

| <u>Ingredients</u> | <u>CAS No</u> | <u>Toxicity to Algae</u> |                           |                 |
|--------------------|---------------|--------------------------|---------------------------|-----------------|
|                    |               | <u>EC50 / 96h or 72h</u> | <u>NOEC / 96h or 72h</u>  | <u>M Factor</u> |
| Propylene glycol   | 57-55-6       | > 18 000 mg/L            | No information available. | None.           |

**Persistence and degradability**  
 : No data is available on the product itself.  
 Contains: Propylene glycol. Propylene glycol is considered to be readily biodegradable.

**Bioaccumulation potential** : No information available.

**Mobility in soil** : No information available.

**Other Adverse Environmental effects**  
 : No information available.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7.  
**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**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.



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#### SECTION 14. TRANSPORTATION INFORMATION

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

Special precautions for user : None reported by the manufacturer.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

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

:

#### 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 |                          |
|------------------|---------|----------------|--|--|---|--------------------------|
|                  |         |                |  |  | Toxic Chemical  | de minimus Concentration |
| Propylene glycol | 57-55-6 | Yes            | N/Ap   | N/Av   | No  | NS                       |

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

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

The following chemicals are specifically listed by individual States:

| Ingredients      | CAS #   | California Proposition 65 |                  | State "Right to Know" Lists |    |     |     |     |     |
|------------------|---------|---------------------------|------------------|-----------------------------|----|-----|-----|-----|-----|
|                  |         | Listed                    | Type of Toxicity | CA                          | MA | MN  | NJ  | PA  | RI  |
| Propylene glycol | 57-55-6 | No                        | N/Ap             | No                          | No | Yes | Yes | Yes | Yes |

##### Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

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

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.**



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### 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 |
|------------------|---------|-----------------|----------------|-------------------|------------|-----------------|-------------|----------------|
| Propylene glycol | 57-55-6 | 200-338-0       | Present        | Present           | (2)-234    | KE-29267        | Present     |                |

### SECTION 16. OTHER INFORMATION

#### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

#### References

: Canadian Centre for Occupational Health and Safety, CChemoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).  
31456-11-1 Material Safety Data Sheet from manufacturer  
OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015  
European Chemicals Agency, Classification Legislation, 2015

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**HMIS Rating**



: \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

*Health:* 1                      *Flammability:* 1                      *Reactivity:* 0

**NFPA Rating**

0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe

: *Health:* 0                      *Flammability:* 1                      *Instability:* 0                      *Special Hazards:* None.

|   |   |
|---|---|
| <p><b>Prepared for:</b><br/>         Parker Hannifin Corporation - Sporlan Division<br/>         206 Lange Drive, Washington, MO, U.S.A. 63090<br/>         Telephone: (636) 239-1111<br/>         www.parker.com<br/>         Direct all enquiries to: Parker Hannifin Corp. - Sporlan Division.</p> |   |
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