



A CSW Industrials Company

SAFETY DATA SHEET

Issuing Date 01-May-2017

Revision Date 07-Jan-2019

Revision Number 5



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1. IDENTIFICATION

Product identifier

Product Name PS TERMINAL

Other means of identification

Product Code(s) 60241

(M)SDS Number WPS-JLI-142CLP

Recommended use of the chemical and restrictions on use

Recommended Use For industrial use only

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Identification Jet-Lube of Canada, LTD.

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Units 8 & 9, 1260 - 34 Avenue
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T9E 1K7

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1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

| | |
|---|----------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Gases Under Pressure | Compressed Gas |



Appearance Colorless**Physical state** Liquid Aerosol Gel**Odor** Ether**GHS Label elements, including precautionary statements****Warning****Hazard statements**

Harmful if inhaled

Contains gas under pressure; may explode if heated

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable.

Mixture

| Chemical Name | CAS-No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---|-------------|----------|--|---|
| Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro- | 138495-42-8 | 40-45 | - | - |
| trans-1,2-Dichloroethylen | 156-60-5 | 5-10 | - | - |

| | | | | |
|---------------|----------|------|---|---|
| e | | | | |
| Ethyl alcohol | 64-17-5 | 5-10 | - | - |
| Hexane | 110-54-3 | 1-5 | - | - |

4. FIRST AID MEASURES

First aid measures

| | |
|---|--|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | In case of contact with liquefied gas, thaw frosted parts with lukewarm water. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information. |

Most important symptoms and effects, both acute and delayed

Symptoms Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. |
| Specific hazards arising from the chemical | Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket. |
| Hazardous Combustion Products | Carbon oxides. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | Yes. |
| Sensitivity to Static Discharge | None. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|--|--|
| Personal precautions | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapors or mists. |
| Other Information | Refer to protective measures listed in Sections 7 and 8. |
| <u>Environmental precautions</u> | |
| Environmental precautions | See Section 12 for additional Ecological Information. |
| <u>Methods and material for containment and cleaning up</u> | |
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|---|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Remove contaminated clothing and shoes. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. |
|--------------------------------|---|

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Store locked up. Keep out of the reach of children. |
|---------------------------|---|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|-------------------|--|--|
| trans-1,2-Dichloroethylene 156-60-5 | TWA: 200 ppm | TWA: 200 ppm TWA: 790 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 790 mg/m ³ | |
| Ethyl alcohol 64-17-5 | TWA: 1000 ppm | TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³ | IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³ |
| Hexane 110-54-3 | TWA: 50 ppm S* | TWA: 500 ppm TWA: 1800 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m ³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m ³ | IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m ³ |

| Chemical Name | Alberta | British Columbia | Ontario TWAEV | Quebec |
|--|---|---------------------|--|---|
| trans-1,2-Dichloroethylene 156-60-5 | TWA: 200 ppm TWA: 793 mg/m ³ | TWA: 200 ppm | TWA: 200 ppm TWA: 790 mg/m ³ STEL: 250 ppm STEL: 990 mg/m ³ | |
| Ethyl alcohol 64-17-5 | TWA: 1000 ppm TWA: 1880 mg/m ³ | STEL: 1000 ppm | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1880 mg/m ³ |
| Hexane 110-54-3 | TWA: 50 ppm TWA: 176 mg/m ³ Skin | TWA: 20 ppm Skin | TWA: 50 ppm Skin | TWA: 50 ppm TWA: 176 mg/m ³ Skin |

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Liquid; Aerosol; Gel
Appearance Colorless
Odor Ether
Color Colorless
Odor Threshold No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks Method</u> |
|-------------------------------|---|-----------------------|
| pH | 7 | |
| Melting / freezing point | No data available | None known |
| Boiling point / boiling range | >74 | None known |
| Flash Point | No data available | None known |
| Evaporation Rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | No data available | None known |
| Upper flammability limit | No data available | |
| Lower flammability limit | No data available | |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | 1.26 | |
| Water Solubility | Slightly soluble | |
| Solubility(ies) | Solubility in other solvents Completely | None known |



| | | |
|--|--------------------------|------------|
| Partition coefficient: n-octanol/water | soluble | |
| Autoignition temperature | Not Available | |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | ~1 (@ 40°C) | None known |
| Oxidizing properties | No information available | |
| Other Information | | |
| Softening Point | No information available | |
| Molecular Weight | No information available | |
| VOC Content (%) | No information available | |
| Liquid Density | No information available | |
| Bulk Density | No information available | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Excessive heat. |
| Incompatible materials | None known based on information supplied. |
| Hazardous Decomposition Products | Carbon oxides. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components). |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Information on toxicological effects

| | |
|-----------------|----------------------------|
| Symptoms | Coughing and/ or wheezing. |
|-----------------|----------------------------|

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

| | |
|-------------------------------|----------------|
| ATEmix (oral) | 2,404.00 mg/kg |
| ATEmix (dermal) | 4,091.00 mg/kg |
| ATEmix (inhalation-gas) | 4,500.00 mg/L |
| ATEmix (inhalation-dust/mist) | 2.60 mg/L |
| ATEmix (inhalation-vapor) | 16.00 mg/L |

Unknown acute toxicity No information available

Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | Inhalation LC50 |
|---|----------------------|-------------------------|-------------------------|
| Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro- | > 5 g/kg (Rat) | > 5 g/kg (Rabbit) | |
| trans-1,2-Dichloroethylene | = 1235 mg/kg (Rat) | > 5 g/kg (Rabbit) | |
| Ethyl alcohol | 7060 mg/kg (Rat) | | 124.7 mg/L (Rat) 4 h |
| Hexane | = 25 g/kg (Rat) | = 3000 mg/kg (Rabbit) | = 48000 ppm (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|-----------------------------------|-----------------------------|
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| Legend | |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | May cause damage to organs. |
| Aspiration hazard | No information available. |

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|----------------------------|-------------------|---|---|---|
| trans-1,2-Dichloroethylene | | LC50 96 h: = 135 mg/L static (Lepomis macrochirus) | EC50 = 1142 mg/L 5 min EC50 = 1546 mg/L 30 min | |
| Ethyl alcohol | | LC50 96 h: 12.0 - 16.0 mL/L static (Oncorhynchus mykiss) LC50 96 h: > 100 mg/L static (Pimephales promelas) LC50 96 h: 13400 - 15100 mg/L flow-through (Pimephales promelas) | EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min | LC50 48 h: 9268 - 14221 mg/L (Daphnia magna) EC50 48 h: = 2 mg/L Static (Daphnia magna) EC50 24 h: = 10800 mg/L (Daphnia magna) |
| Hexane | | LC50 96 h: 2.1 - 2.98 mg/L flow-through | - | EC50 24 h: > 1000 mg/L (Daphnia magna) |

| | | |
|--|-----------------------|--|
| | (Pimephales promelas) | |
|--|-----------------------|--|

Persistence and Degradability Expected to be biodegradable.

Bioaccumulation

| Chemical Name | Log Pow |
|----------------------------|---------|
| trans-1,2-Dichloroethylene | 1.48 |
| Ethyl alcohol | -0.32 |

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number U079

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|--|--------------------------------------|------------------------|--|------------------------|
| trans-1,2-Dichloroethylene 156-60-5 | Category I - Volatiles | | Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste |
|--------------------------|----------------------------|
| Ethyl alcohol 64-17-5 | Toxic Ignitable |
| Hexane 110-54-3 | Toxic Ignitable |

| |
|----------------------------------|
| 14. TRANSPORT INFORMATION |
|----------------------------------|

DOT

| | |
|--|-------------------------|
| UN-No. | UN1950 |
| Proper Shipping Name | Aerosols, non-flammable |
| Hazard Class | 2.2 |
| Subsidiary class | 8 |
| Description | UN1950, AEROSOLS, 2.2 |
| Emergency Response Guide Number | 126 |

TDG

| | |
|-----------------------------|-----------------------|
| UN Number | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2.2 |
| Packing Group | None |
| Description | UN1950, Aerosols, 2.2 |

MEX

| | |
|-----------------------------|-----------------------|
| UN-No. | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2.2 |
| Description | UN1950, Aerosols, 2.2 |

ICAO

| | |
|-----------------------------|-----------------------|
| UN-No. | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2.2 |
| Description | UN1950, Aerosols, 2.2 |

IATA

| | |
|-----------------------------|--------------------------------------|
| UN Number | UN1950 |
| Proper Shipping Name | Aerosols, non-flammable |
| Hazard Class | 2.2 |
| Packing Group | None |
| ERG Code | 2L |
| Description | UN1950, Aerosols, non-flammable, 2.2 |

IMDG

| | |
|-----------------------------|----------------------------------|
| UN Number | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2 |
| Subsidiary class | See SP63 |
| Packing Group | None |
| EmS-No. | F-D, S-U |
| Description | UN1950, Aerosols, 2.2 (See SP63) |

RID

| | |
|-----------------------------|-----------------------|
| UN-No. | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2 |
| Classification code | 5A |
| Description | UN1950, Aerosols, 2.2 |
| ADR/RID-Labels | 2.2 |

ADR

| | |
|-----------------------------|----------|
| UN-No. | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2 |

Classification code 5A
 Tunnel restriction code (E)
 Description UN1950, Aerosols, 2.2, (E)

ADN

UN-No. UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2
 Classification code 5A
 Special Provisions 190, 327, 344, 625
 Description UN1950, Aerosols, 2.2
 Hazard Labels 2.2
 Limited Quantity 1 L
 Ventilation VE04

15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.
DSL/NDL Complies.
EINECS/ELINCS Complies.
ENCS Complies.
KECL Complies.
PICCS Contact supplier for inventory compliance status.
AICS Complies.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | CAS-No | Weight-% | SARA 313 - Threshold Values % |
|-------------------|----------|----------|-------------------------------|
| Hexane - 110-54-3 | 110-54-3 | 1-5 | 1.0 |

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden release of pressure hazard Yes

Reactive Hazard

No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--|-----------------------------|------------------------|---------------------------|----------------------------|
| trans-1,2-Dichloroethylene 156-60-5 | | X | X | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|--|--------------------------|------------------------------------|--|
| trans-1,2-Dichloroethylene 156-60-5 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| Hexane 110-54-3 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--|------------|---------------|--------------|--------------|----------|
| trans-1,2-Dichloroethylene 156-60-5 | | X | X | X | |
| Ethyl alcohol 64-17-5 | X | X | X | | - |
| Hexane 110-54-3 | X | X | X | X | X |

16. OTHER INFORMATION

| | | | | |
|-----------------------------------|----------------------------------|----------------|--------------------|------------------------------------|
| NFPA | Health hazards 1 | Flammability 1 | Instability 1 | Physical and Chemical Properties - |
| HMIS | Health hazards 1 * | Flammability 1 | Physical hazards 1 | Personal Protection B |
| <i>Chronic Hazard Star Legend</i> | <i>* = Chronic Health Hazard</i> | | | |

Prepared By Product Stewardship
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Issuing Date 01-May-2017

Revision Date 07-Jan-2019



Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet