

## Safety Data Sheet

Issue date: 03/02/2022

v 6

Last Revision Date: 03/02/2022

**1 Identification**· **Product identifier**· **Trade name: PAG Oil**· **Part number:** 98001500, 98001510, 98001520, 98001530· **Application of the substance / the mixture** lubrication for refrigeration oil· **Details of the supplier of the safety data sheet**

CPS Product Inc. - USA

1010 East 31st Street

Hialeah, FL 33013 USA

Phone: (305) 687 - 4121

Email: cs@cpsproducts.com

· **Manufacturer/Supplier:**

CPS Products Inc. - USA

101 E 31st Street

Hialeah, FL 33013 USA

Tel: (305) 687-4121

· **email of person responsible:** cs@cpsproducts.com· **Emergency telephone number:**

CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

**2 Hazard(s) identification**· **Classification of the substance or mixture**

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

· **Additional information:**

This product is not classified as hazardous according to 29 CFR 1910.1200.

· **Label elements**· **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**· **Signal word** Warning· **Hazard statements**

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

· **Precautionary statements**

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves / eye protection / face protection.

Dispose of contents in accordance with local regulations.

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· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 1  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 1  
Fire = 1  
Reactivity = 0

· **Other hazards**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

- **CAS No. Description**  
9003-13-8 Poly(propylene glycol) monobutyl ether

### 4 First-aid measures

· **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.
- **After swallowing:** Rinse out mouth. Do not induce vomiting. If symptoms persist consult doctor.
- **Information for doctor:** Treat Symptomatically
  - **Most important symptoms and effects, both acute and delayed**  
Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.  
See section 11.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** See section 10 for additional information.
- **Advice for firefighters**
  - **Protective equipment:**
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing. Ventilate area if spilled in a confined space or other poorly ventilated area.
- **Environmental precautions:**

In case of seepage into the ground inform responsible authorities.  
No special measures required.
- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.
- **Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>	27 mg/m <sup>3</sup>
· <b>PAC-2:</b>	300 mg/m <sup>3</sup>
· <b>PAC-3:</b>	1,800 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**
    - Avoid contact with the eyes and skin.
    - Avoid contact with clothing.
    - Use only in well ventilated areas.
    - Avoid splashes or spray in enclosed areas.
  - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**
      - See section 10 for incompatible materials.
    - **Information about storage in one common storage facility:** Store away from water.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

- **Engineering Controls**
  - eye wash station
  - safety shower
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:** Not required.
  - **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing.
      - Avoid contact with the eyes and skin.
    - **Breathing equipment:**
      - Use suitable respiratory protective device only when aerosol or mist is formed.
    - **Protection of hands:**



Chemical resistant protective gloves

- **Material of gloves**
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Eye protection:**



Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Fluid
      - **Color:** Clear
    - **Odor:** Mild
    - **Odor threshold:** Not determined.
  - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** 141 °C

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· <b>Flammability (solid, gaseous):</b>	Product is not flammable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not applicable.
· <b>Density at 20 °C:</b>	0.98 g/cm <sup>3</sup>
· <b>Relative density at 20 °C</b>	0.96-1.07
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic at 40 °C:</b>	41.4-165 cSt
· <b>VOC content:</b>	0.00 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong acids. Oxidizing agents.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimate)</b>		
Oral	LD50	<2,000 mg/kg (rat)
<b>9003-13-8 Poly(propylene glycol) monobutyl ether</b>		
Oral	LD50	<2,000 mg/kg (rat)

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Dermal LD50 &gt;2,000 mg/kg (rat)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

**12 Ecological information**

- **Toxicity**

- **Aquatic toxicity:**

**9003-13-8 Poly(propylene glycol) monobutyl ether**

EC50 (72 h) 333 mg/L (algae)

LC50 (96 h) 104 mg/L (fish)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
  - **General notes:**
    - Water hazard class 2 (Assessment by list): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

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**14 Transport information**

· <b>UN-Number</b> · DOT, ADR, ADN, IMDG, IATA	Not Regulated
· <b>UN proper shipping name</b> · DOT, ADN, IMDG, IATA	Not Regulated
· <b>Transport hazard class(es)</b> · DOT, ADN, IMDG, IATA · Class	Not Regulated
· <b>Packing group</b> · DOT, IMDG, IATA	Not Regulated
· <b>Environmental hazards:</b> · Marine pollutant:	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not Regulated

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No REACH Annex XVII restrictions  
Contains no REACH candidate substance

· **Sara**

· <b>Section 355 (extremely hazardous substances):</b>	
Substance is not listed.	
· <b>Section 313 (Specific toxic chemical listings):</b>	
Substance is not listed.	
· <b>TSCA (Toxic Substances Control Act):</b>	
	ACTIVE
· <b>Hazardous Air Pollutants</b>	
Substance is not listed.	
· <b>Proposition 65</b>	
· <b>Chemicals known to cause cancer:</b>	
Substance is not listed.	
· <b>Chemicals known to cause reproductive toxicity for females:</b>	
Substance is not listed.	
· <b>Chemicals known to cause reproductive toxicity for males:</b>	
Substance is not listed.	

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· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:**

Engineering Department  
Engineering Department

· **Issue Date**

03/02/2022

April 8, 2015

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

· **\* Data compared to the previous version altered.**

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