

# Safety Data Sheet

Issue Date: 20-Apr-2012

Review Date: 19-May-2022

Version 1

## 1. IDENTIFICATION

### Product Identifier

#### Product Name

PURUS Drive Train TO-4 Oil SAE 10W, SAE 30W, SAE 50W

### Other means of identification

#### SDS #

PUR-002, 17175, PIN17175, PIN27175, PIN37175, PIN57175; 17176,  
PIN17176, PIN27176, PIN37176, PIN57176; 17177, PIN17177, PIN27177,  
PIN37177, PIN57177

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

#### Recommended Use

Transmission fluid.

### Details of the supplier of the safety data sheet

#### Supplier Address

Warren Oil Company  
915 E. Jefferson Ave.  
West Memphis, AR 72301

#### Manufactured for:

AIOD  
P.O. BOX 1861  
Montrose, CO 81402-1861  
970-249-6336 www.purusproducts.com

### Emergency Telephone Number

#### Company Phone Number

1-800-428-9284

#### Emergency Telephone (24 hr)

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Appearance** Amber liquid

**Physical State** Liquid

**Odor** Petroleum

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name  | CAS No     | Weight-% |
|--|------------|----------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | 85-90    |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### First Aid Measures

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment. If exposed or concerned: Get medical advice/attention.  |
| <b>Eye Contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.   |
| <b>Skin Contact</b>   | No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. |
| <b>Inhalation</b>     | Remove to fresh air.   |
| <b>Ingestion</b>      | Clean mouth with water and drink afterwards plenty of water. DO NOT induce vomiting because of danger of aspirating liquid into lungs.   |

### Most important symptoms and effects

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Irritating to eyes. May be irritating to skin. Ingestion may cause symptoms of gastrointestinal irritation including abdominal discomfort, nausea, vomiting, and diarrhea. |
|-----------------|--|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>). Water fog.

|                                       |  |
|---------------------------------------|--|
| <b>Unsuitable Extinguishing Media</b> | A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material. |
|---------------------------------------|--|

### Specific Hazards Arising from the Chemical

Product is a non-flammable hydrocarbon mixture. Liquid can burn upon heating to temperatures at or above the flash point. Mist or sprays may be flammable below the products normal flash point.

**Hazardous Combustion Products** Upon decomposition this product may yield oxides of boron, calcium, magnesium, phosphorous, zinc, sulfur including hydrogen sulfide and nitrogen as well as carbon monoxide, carbon dioxide and/or other low molecular weight hydrocarbons.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Persons not wearing proper personal protective equipment should be excluded from area of spill. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Remove all sources of ignition. Spilled material is slippery. |
| <b>Environmental Precautions</b> | See Section 12 for additional Ecological Information.   |

**Methods and material for containment and cleaning up**

- Methods for Containment**            Prevent further leakage or spillage if safe to do so.
- Methods for Clean-Up**            Absorb with non-flammable suitable absorbent such as sand or earth. Scoop up used absorbent into drums or other appropriate container.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Advice on Safe Handling**            Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions**            Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store near heat, sparks, open flame or strong oxidizing agents. Do not store this material in open or unlabeled containers. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode.
- Incompatible Materials**            Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Exposure Guidelines**            This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

- Engineering Controls**            Apply technical measures to comply with the occupational exposure limits. Showers. Eyewash stations. Ventilation systems.

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection**            Wear safety glasses with side shields (or goggles).
- Skin and Body Protection**            Wear protective gloves and protective clothing.
- Respiratory Protection**            If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.
- General Hygiene Considerations**    Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                              |                        |                                |                |
|------------------------------|------------------------|--------------------------------|----------------|
| <b>Physical State</b>        | Liquid                 | <b>Odor</b>                    | Petroleum      |
| <b>Appearance</b>            | Amber liquid           | <b>Odor Threshold</b>          | Not determined |
| <b>Color</b>                 | Amber                  |                                |                |
| <b><u>Property</u></b>       | <b><u>Values</u></b>   | <b><u>Remarks • Method</u></b> |                |
| pH                           | Not determined         |                                |                |
| Melting Point/Freezing Point | Not determined         |                                |                |
| Boiling Point/Boiling Range  | Not determined         |                                |                |
| Flash Point                  | > 204 °C / 400 °F      |                                |                |
| Evaporation Rate             | Not determined         |                                |                |
| Flammability (Solid, Gas)    | Liquid- Not applicable |                                |                |
| Upper Flammability Limits    | Not determined         |                                |                |
| <b><u>Property</u></b>       | <b><u>Values</u></b>   | <b><u>Remarks • Method</u></b> |                |
| Lower Flammability Limit     | Not determined         |                                |                |
| Vapor Pressure               | Not determined         |                                |                |
| Vapor Density                | Not determined         |                                |                |
| Specific Gravity             | Typical 0.86           | @ 60°F                         |                |
| Water Solubility             | Negligible             |                                |                |
| Solubility in other solvents | Not determined         |                                |                |
| Partition Coefficient        | Not determined         |                                |                |
| Auto-ignition Temperature    | Not determined         |                                |                |
| Decomposition Temperature    | Not determined         |                                |                |
| Kinematic Viscosity          | Not determined         |                                |                |
| Dynamic Viscosity            | Not determined         |                                |                |
| Explosive Properties         | Not determined         |                                |                |
| Oxidizing Properties         | Not determined         |                                |                |

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

**Conditions to Avoid**

Avoid formation of mists.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Decomposition of this product may yield oxides of boron, calcium, magnesium, nitrogen, phosphorus, sulfur including hydrogen sulfide and zinc as well as carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Eye Contact**      Avoid contact with eyes.

|                     |                          |
|---------------------|--------------------------|
| <b>Skin Contact</b> | Avoid contact with skin. |
| <b>Inhalation</b>   | Do not inhale.           |
| <b>Ingestion</b>    | Do not ingest.           |

**Component Information**

| Chemical Name   | Oral LD50             | Dermal LD50             | Inhalation LC50 |
|---|-----------------------|-------------------------|-----------------|
| Phenol, dodecyl, sulfured, calcium salts<br>68855-45-8          | = 10000 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | -               |
| Phosphorodithioic acid, -alkyl esters, zinc salts<br>68457-79-4 | = 1830 mg/kg ( Rat )  | > 3160 mg/kg ( Rabbit ) | -               |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Carcinogenicity** The component below belongs to the petroleum family, which has been shown to contain carcinogenic substances depending on the level of refinement. The carcinogen classification need not apply if it can be shown that the substance contains less than 3% dimethyl sulfoxide extract.

| Chemical Name  | ACGIH | IARC    | NTP | OSHA |
|--|-------|---------|-----|------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | A2    | Group 1 |     | X    |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

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

Group 1 - Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

| Chemical Name  | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea                          |
|--|----------------------|---|----------------------------|------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 |                      | 5000: 96 h Oncorhynchus mykiss mg/L LC50  |                            | 1000: 48 h Daphnia magna mg/L EC50 |
| Phenol, dodecyl, sulfured, calcium salts<br>68855-45-8             |                      | 1000: 96 h Pimephales promelas mg/L LC50 semi-static<br>1000: 96 h Pimephales promelas mg/L LC50 static |                            | 1000: 48 h Daphnia magna mg/L EC50 |

|   |   |   |  |  |
|---|---|---|--|--|
| Phosphorodithioic acid, -alkyl esters, zinc salts<br>68457-79-4 | 1.0 - 5.0: 96 h<br>Pseudokirchneriella<br>subcapitata mg/L EC50 | 100: 96 h Pimephales<br>promelas mg/L LC50 semi-<br>static 25 - 50: 96 h<br>Pimephales promelas mg/L<br>LC50 static |  | 4.0 - 6.0: 48 h Daphnia<br>magna mg/L EC50 |
|---|---|---|--|--|

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

| Chemical Name   | California Hazardous Waste Status |
|---|-----------------------------------|
| Phosphorodithioic acid, -alkyl esters, zinc salts<br>68457-79-4 | Toxic                             |

### 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name   | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|---|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Petroleum distillates,<br>hydrotreated heavy paraffinic | Present | X   |      | Present |        | Present | X     | Present | X     | X    |

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - 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*
- IECSC - China Inventory of Existing 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**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**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 % |
|--|------------|----------|-------------------------------|
| Phosphorodithioic acid, -alkyl esters, zinc salts - 68457-79-4 | 68457-79-4 | 1-5      | 1.0                           |

**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 |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Phosphorodithioic acid, -alkyl esters, zinc salts |                             | X                      |                           |                            |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name   | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Phosphorodithioic acid, -alkyl esters, zinc salts<br>68457-79-4 | X          |               | X            |

**16. OTHER INFORMATION**

|                    |                            |                          |                              |  |
|--------------------|----------------------------|--------------------------|------------------------------|--|
| <b><u>NFPA</u></b> | <b>Health Hazards</b><br>1 | <b>Flammability</b><br>1 | <b>Instability</b><br>0      | <b>Special Hazards</b><br>Not determined     |
| <b><u>HMIS</u></b> | <b>Health Hazards</b><br>1 | <b>Flammability</b><br>1 | <b>Physical Hazards</b><br>0 | <b>Personal Protection</b><br>Not determined |

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**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**