Safety Data Sheet

Issue Date: 11-Dec-2014 **Review Date:** 11- Nov- 2022 **Version** 2

1. IDENTIFICATION

Product Identifier PURUS Full Synthetic SAE 5W-30 CK-4 and SAE 5W-40 CK-4/ SN Heavy Duty Diesel

Product Name Engine Oil

Other means of identification PUR-012, PUR-041, 17047, PHD17047, PHD27047 PHD37047, PHD57047, PHD67047, PH

SDS # PHD00553, PHD00554, PHD00551, PHD00552, 17172, PHD17172,PHD27172,

PHD37172 PHD57172,PHD67172, PHD00366, PHD00367

Recommended use of the chemical and restrictions on use

Recommended Use Premium heavy duty motor oil.

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 (North America)

2. HAZARDS IDENTIFICATION

Appearance Light amber, viscous liquid Physical State Viscous liquid Odor Typical 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	70-80

^{**}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

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Eye Contact Flush eyes with large amounts of water, for at least 15 minutes, until irritation subsides. If

irritation persists, get medical attention.

Skin Contact 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. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should

seek immediate medical attention.

Inhalation Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If

breathing is difficult, give oxygen. Get medical attention.

Ingestion If swallowed, do not induce vomiting. If victim exhibits signs of lung aspiration such as

coughing or choking, seek immediate medical attention.

Most important symptoms and effects

Symptoms Expected to be a minor eye irritant. Repeated or prolonged skin contact may cause

dermatitis.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use dry chemical, foam, carbon dioxide or water fog.

Unsuitable Extinguishing Media While carbon dioxide and inert will extinguish the fire, they can also displace oxygen. Use

caution when applying carbon dioxide or inert gas in confined spaces.

Specific Hazards Arising from the Chemical

This material can burn but will not readily ignite. This material will release vapors when heated above the flashpoint temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flashpoint. Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Aldehydes. Ketones. Combustion products of sulfur and nitrogen.

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. Avoid breathing smoke and vapor. Water may be used to cool containers exposed to heat or flame.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Remove sources of ignition. Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams.

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Englis Oil

vacuum

7. HANDLING AND STORAGE

Precautions for safe handling

Methods for Clean-Up

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store at ambient conditions. Store at atmospheric pressure. Keep container tightly closed.

Store in a cool, well-ventilated place. Keep away from heat, sparks, and flame. Empty

Take up small spills with absorbent pads. Large spills may be taken up with pump or

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containers retain product residues. Store away from incompatible materials.

Incompatible Materials This product may react with 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

spaces. If product is heated above 70 C (155 F) in the presence of water, hydrogen sulfide vapors may be released. Ventilation should be sufficient to keep hydrogen sulfide levels

below recommended exposure limits. Eye wash fountains are recommended.

Individual protection measures, such as personal protective equipment

Eye/Face ProtectionWear safety glasses. Wear chemical goggles or face shield if splash or mist occurs.

unavoidable.

approved organic vapor respirator suitable for oil mist.

General Hygiene Considerations Use good hygiene when handling petroleum product. Launder contaminated clothing before

reuse. Excessive misting may cause slippery floors - wear appropriate footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Viscous liquid

AppearanceLight amber, viscous liquidOdorTypical petroleumColorLight amberOdor ThresholdNot available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNot availableMelting Point/Freezing PointNot availableBoiling Point/Boiling RangeNot available

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Flash Point 204 °C / 400 °F ASTM D-92

Evaporation Rate Not available Flammability (Solid, Gas) Liquid-Not applicable **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not available

Vapor Density (Air=1) >1

Specific Gravity 0.88

Insoluble in water **Water Solubility** Solubility in other solvents Not determined **Partition Coefficient** Not available **Auto-ignition Temperature** No data available **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 under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid

Avoid formation of mists. Keep away from extreme heat, sparks, open flame and incompatible materials.

Incompatible Materials

This product may react with 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.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Engine Oil

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum derived calcium salt > 5000 mg/kg (Rat) 61789-86-4		> 4000 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

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

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

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	Crustacea
			microorganisms	
Petroleum distillates,		5000: 96 h Oncorhynchus		1000: 48 h Daphnia magna
hydrotreated heavy paraffinic		mykiss mg/L LC50		mg/L EC50
64742-54-7		, ,		-
Petroleum derived calcium		5.7 - 9.7: 96 h Pimephales		6.2 - 12: 48 h Daphnia
salt		promelas mg/L LC50 static		magna mg/L EC50
61789-86-4		1.0 - 10.0: 96 h Pimephales		
		promelas mg/L LC50 semi-		
		static		

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.

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14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

Not regulated <u>IATA</u>

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum distillates,	Present	X		Present		Present	X	Present	X	Χ
hydrotreated heavy paraffinic										

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 311/312 Hazard Categories

Acute Health Hazard No **Chronic Health Hazard** No Fire Hazard No **Sudden Release of Pressure Hazard** No **Reactive Hazard** No

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Zinc alkyl dithiophosphate - 113706-15-3	113706-15-3	<1	1.0

CWA (Clean Water Act)

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Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc alkyl dithiophosphate		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
Zinc alkyl dithiophosphate 113706-15-3	X		X

16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
HMIS	1 Health Hazards 1	1 Flammability 1	0 Physical Hazards	Not determined Personal Protection 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