

Safety Data Sheet

Issue Date: 21-Feb-2017

Revision Date: N/A

Version 1

1. IDENTIFICATION

Product Identifier

Product Name

PURUS SAE 40 Synthetic Heavy Duty Manual Transmission Fluid

Other means of identification

SDS #

PUR-044, PHD17221, PHD27221, PHD37221, PHD 57221

Recommended use of the chemical and restrictions on use

Recommended Use

Lubricants

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) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Aquatic Acute	3	Hazardous to the aquatic environment – acute
Aquatic Chronic	3	Hazardous to the aquatic environment – chronic

Label elements

Hazard Statement:

H402

Harmful to aquatic life.

H412

Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273

Avoid release to the environment.

Precautionary Statements (Disposal):

P501

Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture..

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: N-Phenyl alpha naphthylamine.

3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
80939-62-4	>= 1.0 - < 3.0%	Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates
90-30-2	>= 0.1 - < 0.2%	1-Naphthalenamine, N-phenyl-

4. FIRST-AID MEASURES

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labeling (see Section 2) and/or in Section 11.

Further important symptoms and effects are so far not known.

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:
Water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
Water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
Harmful vapors
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Keep people away and stay on the upwind side. Breathing protection required.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:
No special precautions necessary.

Conditions for safe storage, including any incompatibilities

The product in undamaged packing need not be stored separately.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No occupational exposure limits known.

Advice on system design:

No applicable information available.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator.

Hand protection

Chemical resistant protective gloves

Eye protection

Safety glasses with side-shields

Body protection

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	
Odor:	Faint specific odor	
Odor threshold:	No applicable information available	
Color:	Light amber	
pH value:	Not applicable	
Melting point:	No applicable information available	
Boiling point:	No applicable information available	
Sublimation point:	No applicable information available	
Flash point:	238 °C	
Flammability:	Not flammable	
Lower explosion limit:	For liquids not relevant for classification and labeling. The lower explosion point may be 5 – 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labeling.	
Vapor pressure:	No applicable information available	
Density:	0.850 g/cm ³ (15.6°C)	(ISO 2811-3)
Relative density:	No applicable information available	
Vapor density:	No applicable information available	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available	
Self-ignition temperature:	Not self-igniting	
Thermal decomposition:	No applicable information available	
Viscosity, dynamic:	No applicable information available	
Viscosity, kinematic:	95.1 mm ² /s (40 °C)	(ASTM D445)
Solubility in water:	Not soluble	
Solubility (quantitative):	No applicable information available	
Solubility (qualitative):	Soluble	
	Solvent(s): aliphatic hydrocarbons	
Evaporation rate:	No applicable information available	
Other information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. STABILITY AND REACTIVITY

Reactivity

No applicable information available.

Corrosion to metals:

No corrosive effect on metal

Oxidizing properties:

Not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Conditions to avoid

No special precautions other than good housekeeping of chemicals.

Incompatible materials

Strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No applicable information available.

11. TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

Inhalation

No applicable information available.

Dermal

No applicable information available

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation. Based on available Data, the classification criteria are not met.

Skin

Species: rabbit
Result: non-irritant

Eye

Species: rabbit
Result: non-irritant

Sensitization

Assessment of sensitization: A sensitizing effect on particularly sensitive individuals cannot be excluded.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: None known.

Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labeling (see Section 2) and/or in Section 11. Further important symptoms and effects are so far not known.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Study scientifically not justified.

Bioaccumulative potential

Assessment bioaccumulation potential

Study scientifically not justified.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

14. TRANSPORT INFORMATION

Land transport

USDOT

Not classified as a dangerous good under transport regulations.

Sea transport

IMDG

Not classified as a dangerous good under transport regulations.

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

Federal Regulations

Registration status:

Chemical TSCA, US Released / listed

EPCRA 311/312 (Hazard categories): Not hazardous.

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
10 LBS	91-59-8	2-naphthylamine

CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

NPFA Hazard codes;

Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

16. OTHER INFORMATION

Issue Date: 21-Feb-2017
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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