Safety Data Sheet

Issue Date: 22-Dec-2014 Revision Date: 23-April-2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name PURUS Rock Drill Oil 32, 68, 100, 150, 220 and 460

Other means of identification

SDS#

PUR-018,17232,PIN17232,PIN27232, PIN57232,17191,PIN17191,PIN27191,PIN37191,PIN57191 PIN77191;17192,PIN17192, PIN27192, PIN37192, PIN57192; 17193, PIN17193, PIN17193, PIN17193, PIN17194, PIN17194,

PIN27227, PIN37227, PIN57227

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

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

Appearance Clear 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	50-60
Residual oils (petroleum), solvent refined	64742-01-4	10-20
Distillates, petroleum, solvent refined heavy paraffinic	64741-88-4	10-20

^{**}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

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First Aid Measures

Eye Contact Flush eyes with large amounts of water until irritation subsides. If irritation persists, get

medical attention.

Skin ContactNo 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.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult, give oxygen. If not breathing give artificial respiration, preferably

mouth-to-mouth. Call a POISON CENTER or doctor/physician.

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

Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Dense smoke may be generated while burning.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Other oxides.

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 PrecautionsUse 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.

vacuum.

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7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

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 Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes.

Skin and Body Protection Wear suitable protective clothing.

Respiratory Protection Respiratory protection is not required under conditions of normal use. If vapor or mist is

generated when the material is heated or handled, use organic vapor respirator with a dust

ASTM D-92

or mist filter.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

AppearanceClear amber liquidOdorPetroleumColorClear amberOdor ThresholdNot determined

Property Values Remarks • Method

PH Not determined
Melting Point/Freezing Point Not determined
Boiling Point/Boiling Range Not determined
Flash Point 218.3 °C / 425 °F

Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure

Not determined
Liquid-Not applicable
Not established
Not established
Not determined

Vapor Pressure
Not determined
No data available
Specific Gravity
0.90

Water Solubility insoluble
Solubility in other solvents
Partition Coefficient Not determined
Auto-ignition Temperature No data available

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Decomposition TemperatureNot determinedKinematic ViscosityNot determinedDynamic ViscosityNot determinedExplosive PropertiesNot determinedOxidizing PropertiesNot 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.

Conditions to Avoid

Incompatible Materials.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2). Other oxides.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 2.18 mg/L (Rat) 4 h		
Residual oils (petroleum), solvent refined 64742-01-4	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 2.18 mg/L (Rat) 4 h		

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

IARC or NTP.

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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 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Distillates, petroleum, solvent refined heavy paraffinic 64741-88-4		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Residual oils (petroleum), solvent refined 64742-01-4		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia 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 WastesDisposal 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.

14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

DOT Not regulated

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<u>IATA</u> Not regulated

<u>IMDG</u> 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	Χ	X
hydrotreated heavy paraffinic										
Residual oils (petroleum),	Present	X		Present			X	Present	X	X
solvent refined										
Distillates, petroleum,	Present	Х		Present		Present	X	Present	X	X
solvent refined 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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

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16. OTHER INFORMATION

NFPAHealth Hazards
0Flammability
1Instability
0Special Hazards
Not determinedHMISHealth Hazards
1Flammability
1Physical Hazards
0Personal 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