

# Signature® R & O 46

## Safety Data Sheet



### SECTION 1 IDENTIFICATION

**Product Name:** Signature® R & O 46

**Distributor Information:**

Parman Energy Corporation  
7101 Cockrill Bend Blvd  
Nashville, TN 37209  
(800) 727-7920

**Product Use:** Rust and Oxidation Hydraulic Oil, Turbine Oil, Lubricant

**Emergency Phone Number:**

PERS (800) 633-8253

### SECTION 2 HAZARD(S) IDENTIFICATION

**Classification:**

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Skin Sensitization :** Category 1

Label Elements:

Warning

Hazard Statements: May cause an allergic reaction



**Appearance:** Amber Color

**Physical State:** Viscous Liquid

**Odor:** Mild Petroleum Odor

**Precautionary Statements – Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear Protective gloves

**Precautionary Statements – Response:**

Specific treatment (see supplemental first aid instruction on this label)

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

**Precautionary Statements Disposal:**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):**

**Other Information:**

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May be harmful in contact with skin  
Harmful to aquatic life with long lasting effects  
Harmful to aquatic life

Unknown Aquatic Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Common Name:** Hydrocarbon Lubricating Fluid

**Chemical Family:** Petroleum Hydrocarbon Mixture

| Components  | CAS Number  | Amount    | Trade Secret |
|---|-------------|-----------|--------------|
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0  | 0-87      | *            |
| Lubricating oils, petroleum, hydrotreated spent         | 64742-58-1  | 0-99      | *            |
| Residual Oils (petroleum), solvent-dewaxed              | 64742-62-7  | 0-96      | *            |
| Alkyl Phenol  | Proprietary | 0.24-0.47 | *            |
| Aryl Amine  | Proprietary | 0.08-0.16 | *            |
| Aryl Triazole Alkyl Amine                               | Proprietary | 0.01-0.04 | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4 FIRST-AID MEASURES

**First-aid measures general:** No hazards which require special first aid measures

**Inhalation:** Move exposed persons to fresh air. Consult medical personnel if breathing issues occur.

**Skin:** Wash off immediately with soap and plenty of water

**Eye Contact:** Flush eyes for 30 minutes with water. Get medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Consult a physician.

**Immediate Symptoms and Effects:**

**Symptoms:** No Information Available

**Delayed or other Health Effects:** No Information Available

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

**Notes to Physician:** Treat symptomatically

### SECTION 5 FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

**Small Fires:** Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.

**Large Fires:** Contact emergency personnel.

**Unsuitable extinguishing media:** Caution: Use of water spray when fighting fire may be inefficient.

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**Specific hazards arising from the chemical:** Combustible material.

**Hazardous Combustion Products:** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>)

**Explosion data:**

**Sensitivity to Mechanical Impact:** None

**Sensitivity to Static Discharge:** None

**Protection for Fire Fighters:**

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

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment & Emergency Procedures:**

**Personal Protection:** Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become slippery

**Environmental Precautions:** See section 12 for additional Ecological Information

**Methods for Containment:** Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.

**Methods for Cleaning Up:** Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required

### SECTION 7 HANDLING AND STORAGE

**Precautionary Measures:**

**Advice on Safe Handling:** Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70°C (158°F). It is recommended to pump or transfer material at ambient temperature.

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

**Storage Conditions:** Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: Store in cool dry area. Always follow local, state, and federal guidelines for storage of material for amount stored.

**Incompatible Products:** Strong oxidizing agents.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:**

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Controls:** Showers, eyewash stations, ventilation systems

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### Personal Protective Equipment:

**Eye/Face Protection:** If splashes are likely to occur, wear: Goggles. Eye/Face Protection.

**Skin and Body Protection:** Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** Remove & wash contaminated clothing before re-use.

Consult local authorities for appropriate values

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Attention:** the data below are typical values and do not constitute a specification.

**Color:** Amber

**Physical State:** Viscous Liquid

**Odor:** Mild petroleum odor

**Odor Threshold:** No data available

**pH:** Not applicable

**Vapor Pressure:** Not available

**Vapor Density (Air = 1):** Not available

**Initial Boiling Point:** Not available

**Solubility:** Not available

**Melting/Freezing Point:** Not applicable

**Specific Gravity:** 0.87 – 0.89

**Kinematic Viscosity:** 32-460 @40°C mm<sup>2</sup>/s

**Dynamic Viscosity:** Not available

**Evaporation Rate:** No data available

**Decomposition temperature:** Not available

**Octanol/Water Partition Coefficient:** Not available

#### Flammable Properties:

**Flammability (solid, gas):** Not available

**Flash Point:** > 93.3°C (>200°F) Cleveland Open Cup (COC)

**Auto-ignition temperature:** No data available

**Explosive Properties:** Not available

**Oxidizing Properties:** Not available

**Flammability (Explosive) Limits (% by volume in air):** Lower: Not available Upper: Not available

#### Other Information:

**Softening Point:** Not available

**VOC Content:** Not available

**Density:** Not available

**Bulk Density:** Not available

### SECTION 10 STABILITY AND REACTIVITY

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**Reactivity:** Not available

**Chemical Stability:** Stable under normal conditions

**Possibility of Hazardous Reactions:** None under normal processing.

**Conditions to Avoid:** Excessive heat. High energy sources of ignition.

**Incompatibility With Other Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** None known based on information supplied.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### SECTION 11 TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**

**Product Information:** No data available

**Eye Contact:** Avoid contact with eyes. May cause irritation.

**Skin Contact:** May cause eye/skin irritation. Prolonged skin contact may defat the skin and produce dermatitis

**Inhalation:** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion:** Do NOT taste or swallow

| Chemical Name  | Oral LD50         | Dermal LD 50         | Inhalation LC50      |
|--|-------------------|----------------------|----------------------|
| Lubricating oils, petroleum, hydrotreated spent 64742-58-1 | >2000 MG/KG (Rat) | >4480 mg/kg (Rabbit) | --                   |
| Residual Oils (petroleum), solvent-dewaxed 64742-62-7      | >5000 mg/kg (Rat) | >2000 mg/kg (Rabbit) | =2.18 mg/L (Rat) 4 h |

Information on toxicological effects:

Symptoms: No information available

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

**Sensitization:** No information available

**Germ Cell Mutagenicity:** No information available

**Carcinogenicity:** No information available

| Chemical Name  | ACGIH | IARC    | NTP | OSHA |
|--|-------|---------|-----|------|
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | -     | Group 1 | -   | X    |
| Residual Oils (petroleum) solvent-dewaxed 64742-62-7               | -     | Group 1 | -   | X    |

**Reproductive toxicity:** No information available

**STOT – Single exposure:** No information available

**STOT – Repeated exposure:** No information available

**Aspiration Hazard:** No information available

**Numerical measures of toxicity – Product Information:**

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Unknown Aquatic Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

### SECTION 12 ECOLOGICAL INFORMATION

#### Ecotoxicity:

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

| Chemical Name  | Algae/Aquatic Plants | Fish   | Crustacea                          |
|--|----------------------|--|------------------------------------|
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | -                    | 5000: 96 h Oncorhynchus mykiss mg/L LC50   | 1000: 48 h Daphnia magna mg/L EC50 |
| Lubricating oils, petroleum, hydrotreated spent 64742-58-1         | -                    | 79.6: 96 h Brachydanio rerio mg/L LC50 semi-static 3.2: 96 h Pimephales promelas mg/L LC50 semi-static | -                                  |
| Residual Oils (petroleum), solvent-dewaxed 64742-62-7              | -                    | 5000: 96 h Oncorhynchus mykiss mg/L LC50   | 1000: 48 h Daphnia magna mg/L EC50 |

**Persistence and Degradability:** No data available.

**Bioaccumulation:** No data available.

**Other adverse effects:** No data available

### SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Disposal should be in accordance with applicable regional, national, and local laws and regulations

**Contaminated Packaging:** Do not reuse container

### SECTION 14 TRANSPORT INFORMATION

**DOT:** Not regulated

### SECTION 15 REGULATORY INFORMATION

#### International Inventories:

**TSCA:** Does not comply

**DSL/NDSL:** Does not comply

**EINECS/ELINCS:** Does not comply

**ENCS:** Does not comply

**IECSC:** Does not comply

**KECL:** Does not comply

**PICCS:** Does not comply

**AICS:** Does not comply

#### 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 Commercial Chemical Substances/EU List of Notified Chemical Substances

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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

### U.S. Federal Regulations:

**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

### SARA 311/312 CATEGORIES

1. Acute Health Hazard: No
2. Chronic Health Hazard: No
3. Fire Hazard: No
4. Sudden Release of Pressure Hazard: No
5. Reactivity Hazard: No

**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)

**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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations:

**California Proposition 65:** This product does not contain any proposition 65 chemicals

### U.S. State Right-to-Know Regulations:

### U.S. EPA Label Information:

**EPA Pesticide Registration Number:** Not Applicable

## SECTION 16 OTHER INFORMATION

### NFPA Ratings

**NFPA Health Hazard** 1

**NFPA Fire Hazard** 1

**NFPA Reactivity** 0

**Physical & Chemical Hazards** -

### HMIS Rating

**HMIS Health Hazard** 1

**HMIS Fire Hazard** 1

**HMIS Reactivity** 0

**Personal Protection** X

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SDS sections updated 2, 3, 5, 7, 9, 10, 11, 15, 16

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The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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