



# SAFETY DATA SHEET

**SDS ID NO.:** 0171MAR019 **Revision Date:** 05/27/2015

# 1. IDENTIFICATION

Product Name: Marathon Petroleum Endurance R & O Oil

Synonym: Endurance R&O Oil; R&O Endurance Hydraulic Oil; ISO 32 Endurance R&O Oil; ISO 46

Endurance R&O Oil; ISO 68 Endurance R&O Oil; ISO 100 Endurance R&O Oil; ISO 32

R&O Oil; ISO 46 R&O Oil; ISO 68 R&O Oil; ISO 100 R&O Oil

Chemical Family: Hydrocarbon Mixture

Recommended Use: Hydraulic Fluid. Use Restrictions: All others.

**Supplier Name and Address:** 

MARATHON PETROLEUM COMPANY LP 539 South Main Street Findlay, OH 45840

**SDS information:** 1-419-421-3070 **Emergency Telephone:** 1-877-627-5463

# 2. HAZARD IDENTIFICATION

#### Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3

## **Hazards Not Otherwise Classified (HNOC)**

Not applicable

### Label elements

## **EMERGENCY OVERVIEW**

# Warning

May cause an allergic skin reaction

Harmful to aquatic life with long lasting effects

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Appearance Yellow Liquid Physical State Liquid Odor Petroleum

## **Precautionary Statements - Prevention**

Avoid breathing mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Avoid release to the environment

## **Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical attention Wash contaminated clothing before reuse

## **Precautionary Statements - Storage**

Not applicable

## **Precautionary Statements - Disposal**

Dispose of contents/container at an approved waste disposal plant

#### **Additional Information**

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Lube oil is a complex mixture of highly refined lubricating base stocks and additives.

# **Composition Information:**

Name	CAS Number	Weight %
Additives	Not specified	0.1-1

# 4. FIRST AID MEASURES

### **First Aid Measures**

General advice In case of accident or if you feel unwell, seek medical advice immediately (show directions

for use or safety data sheet if possible).

**Inhalation:** Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult,

ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If symptoms occur get medical

attention.

Skin Contact: Wash skin with plenty of soap and water. Remove contaminated clothing. Get medical

attention if irritation or rash occurs. Wash contaminated clothing and clean shoes before reuse. Any injection injury from high pressure equipment should be evaluated immediately

by a physician as potentially serious (See NOTES TO PHYSICIAN).

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Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be

held away from the eyeball to ensure thorough rinsing. Gently remove contacts while

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flushing. Get medical attention if irritation persists.

**Ingestion:** Rinse mouth out with water. If spontaneous vomiting occurs, keep head below hips, or if

patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected

person warm and at rest. If symptoms develop, seek medical attention.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: May cause skin irritation and/or rash. Preexisting skin conditions and/or respiratory

disorders may be aggravated by exposure to this product.

Indication of any immediate medical attention and special treatment needed

NOTES TO PHYSICIAN: SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material

through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

The product is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.

### **Hazardous combustion products**

Smoke, carbon monoxide, and other products of incomplete combustion.

# **Explosion data**

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge No.

## Special protective equipment and precautions for firefighters

Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.

NFPA: Health 2 Flammability 1 Instability 0 Special Hazards -

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so.

**Protective Equipment:** Use personal protection measures as recommended in Section 8.

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Advise authorities and National Response Center (800-424-8802) if the product has **Emergency Procedures:** 

entered a water course or sewer. Notify local health and pollution control agencies, if

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appropriate.

**Environmental precautions:** Avoid release to the environment. Avoid subsoil penetration.

Methods and materials for

containment:

Prevent further leakage or spillage if safe to do so.

up:

Methods and materials for cleaning Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers.

# 7. HANDLING AND STORAGE

**Safe Handling Precautions:** Avoid contact with skin, eyes and clothing. Do not swallow. Avoid breathing vapors or mists.

Use good personal hygiene practices. Wash thoroughly after handling. Use personal protection measures as recommended in Section 8. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA

and consistent state and local requirements.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL

EMERGENCIES (See First Aid Section 4).

Store in properly closed containers that are appropriately labeled and in a cool, **Storage Conditions:** 

well-ventilated area. Containers that have been opened must be carefully resealed and kept

upright to prevent leakage. Store away from incompatible materials.

Incompatible materials Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Additives	-	-	-	=
Not specified				

Notes:

The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits

were vacated in 1992.

**Engineering measures:** Local or general exhaust required when using at elevated temperatures that generate

vapors or mists.

Personal protective equipment

Eye protection: Use goggles or face-shield if the potential for splashing exists.

Skin and body protection: Wear neoprene, nitrile or PVA gloves to prevent skin contact. Glove suitability is based on

workplace conditions and usage. Contact the glove manufacturer for specific advice on

glove selection and breakthrough times. Wear appropriate protective clothing.

Respiratory protection: Use an approved organic vapor chemical cartridge or supplied air respirators when material

produces vapors that exceed permissible exposure limits or excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire

fighting.

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Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Hygiene measures:

skin, eyes and clothing. Wash hands before breaks and immediately after handling the

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product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Liquid **Physical State Appearance** Yellow Liquid Color Yellow Petroleum Odor **Odor Threshold** No available data.

Values (Method) **Property Melting Point / Freezing Point** No available data. **Initial Boiling Point / Boiling Range** No available data.

**Flash Point** > 190 °C / > 374 °F (Cleveland Open-Cup)

**Evaporation Rate** No available data. Flammability (solid, gas) Not applicable.

Flammability Limit in Air (%)

No available data. **Upper Flammability Limit: Lower Flammability Limit:** No available data. **Vapor Pressure** No available data. **Vapor Density** No available data.

Specific Gravity / Relative Density 0.85-0.89

Water Solubility No available data. Solubility in other solvents No available data. **Partition Coefficient** No available data. **Decomposition temperature:** No available data. No available data. pH: No available data. **Autoignition Temperature** No available data.

**Kinematic Viscosity Dynamic Viscosity** No available data. **Explosive Properties** No available data. **Softening Point** No available data.

**VOC Content (%)** 0 (w/w)

No available data. Density **Bulk Density** Not applicable.

# 10. STABILITY AND REACTIVITY

The product is non-reactive under normal conditions. Reactivity

Stable under recommended storage conditions. Chemical stability

None under normal processing. Possibility of hazardous reactions

Will not occur. Hazardous polymerization

Sources of heat or ignition. Conditions to avoid

Incompatible materials Strong oxidizing agents.

None known under normal conditions of use. Hazardous decomposition products

# 11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

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Inhalation Overheating may produce vapors which may cause respiratory irritation, dizziness and

nausea.

**Eye contact** Exposure to vapor or contact with liquid may cause mild eye irritation.

**Skin contact** May cause an allergic skin reaction. Prolonged or repeated exposure may cause dermatitis,

folliculitis or oil acne.

**Ingestion** May cause irritation of the mouth, throat and gastrointestinal tract.

## Acute Toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Additives	-	-	-
Not specified			

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

This product is considered to have a low order of acute and chronic oral and dermal toxicity.

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## Adverse effects related to the physical, chemical and toxicological characteristics

Signs & Symptoms Irritation. Rash. Repeated or prolonged skin contact may cause drying, reddening, itching

and cracking.

**Sensitization** May cause sensitization by skin contact. Not expected to be a respiratory sensitizer.

Mutagenic effects None known.

**Carcinogenicity** Cancer designations are listed in the table below.

Name	ACGIH	IARC	NTP	OSHA
	(Class)	(Class)		
Additives Not specified	Not Listed	Not Listed	Not Listed	Not Listed

Reproductive toxicity None known.

Specific Target Organ Toxicity (STOT) - single exposure

Not classified.

Specific Target Organ Toxicity (STOT) - repeated exposure

Not classified.

**Aspiration hazard** No available data.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Additives Not specified	-	-	-	-

Persistence and degradability No information available.

<u>Bioaccummulation</u> No information available.

<u>Mobility in soil</u> No information available.

Other adverse effects No information available.

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# 13. DISPOSAL CONSIDERATIONS

### **Description of Waste Residues**

No information available.

#### Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required.

## **Disposal of Wastes / Methods of Disposal**

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

## **Methods of Contaminated Packaging Disposal**

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

# 14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):

UN Proper shipping name:
UN/Identification No:
Not applicable
Transport Hazard Class(es):
Not applicable
Packing group:
Not applicable

TDG (Canada):

UN Proper shipping name:
UN/Identification No:
Transport Hazard Class(es):
Packing group:

Not Regulated
Not applicable
Not applicable
Not applicable

# 15. REGULATORY INFORMATION

# **US Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA

Chemical Inventory.

#### **EPA Superfund Amendment & Reauthorization Act (SARA):**

SARA Section 302: This product does not contain any component(s) included on EPA's Extremely Hazardous

Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Additives	NA

SARA Section 304: This product does not contain any component(s) identified as an EHS or a CERCLA

Hazardous substance, which in case of a spill or release may be subject to SARA reporting

requirements.

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Additives	NA

SARA: The following EPA hazard categories apply to this product:

Acute Health Hazard

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SARA Section 313:

This product does not contain components, which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic

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Release Reporting (Form R):

Name	CERCLA/SARA 313 Emission reporting:
Additives	None

### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

#### Additives

Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: Not Listed. Pennsylvania Right-To-Know: Not Listed. Massachusetts Right-To Know: Not Listed. Florida Substance List: Not Listed. Rhode Island Right-To-Know: Not Listed. Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed. Substances: New Jersey - Special Hazardous Substances: Not Listed. New Jersey - Environmental Hazardous Not Listed. Substances List: Illinois - Toxic Air Contaminants Not Listed. Not Listed.

New York - Reporting of Releases Part 597 -List of Hazardous Substances:

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL)

or are exempt.

**Canadian Regulatory Information:** "This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the (M)SDS contains all the information required by the

Controlled Products Regulations."

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Additives	D2B	1%



Not Applicable. NOTE:

# **16. OTHER INFORMATION**

Toxicology and Product Safety **Prepared By** 

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**Revision Note:** 

**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 is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not 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.

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