

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083100

### RILCO HDMO 10W

Date of the previous version: not applicable

Revision Date: 2015-05-12

Version 1

#### 1. IDENTIFICATION

##### Product identifier

Product name RILCO HDMO 10W

##### Other means of identification

Product Code(s) 083100

Number 742  
Substance/mixture Mixture

##### Recommended use of the chemical and restrictions on use

Identified uses Heavy duty diesel.

Uses advised against Do not use for any purpose other than the one for which it is intended

##### Details of the supplier of the safety data sheet

Supplier Address RILCO, INC.  
1320 1st Street  
Rock Island, IL 61201  
Phone: 309 788 5631

E-mail Address info@rilcoinc.com

##### Emergency telephone number

Company Phone Number 309 788 5631  
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

#### 2. HAZARDS IDENTIFICATION

##### Classification

Serious eye damage/eye irritation - Category 2A  
Skin sensitization - Category 1  
Reproductive toxicity - Category 2

##### Label elements

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### WARNING

Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapours/ spray  
Contaminated work clothing should not be allowed out of the workplace  
Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

Specific treatment (see Section 4 on this label)  
IF exposed or concerned: Get medical advice/attention

##### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

##### Skin

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 - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Unknown Acute Toxicity

No information available

#### Hazards not otherwise classified (HNOC)

- Causes mild skin irritation

#### Other information

- Contaminated surfaces will be extremely slippery
- Should not be released into the environment

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	1-3
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts	70024-69-0	<1
Phenol, dodecyl-, branched	121158-58-5	<1
O,O,O-triphenyl phosphorothioate	597-82-0	<1

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. May cause an allergic skin reaction. Seek medical attention if skin irritation, swelling or redness develops and persists.
<b>Inhalation</b>	Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
<b>Ingestion</b>	If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person. Rinse mouth. May produce an allergic reaction.

#### Most important symptoms/effects, acute and delayed

<b>Skin contact</b>	Causes mild skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Inhalation</b>	Not classified. Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Suspected of damaging fertility or the unborn child. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Redness. Itching.

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### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician                      Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media              Foam. Carbon dioxide (CO<sub>2</sub>). ABC powder. Water spray.

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

Special Hazard                                      Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

### Explosion Data

Sensitivity to Mechanical Impact              None.  
Sensitivity to Static Discharge                      None.

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. Evacuate non-essential personnel.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

General Information                                      Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Other information                                      See Section 12 for additional information.

### Environmental precautions

General Information                                      Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

### Methods and materials for containment and cleaning up

Methods for cleaning up                                      Dam up. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use mechanical means such as pumps, skimmers and absorbent materials.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

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### Advice on safe handling

When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

### Prevention of fire and explosion

Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product.

### Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

#### Materials to Avoid

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure limits

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined).

### Exposure controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Individual protection measures, such as personal protective equipment

#### General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

#### Eye/Face Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

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<b>Skin and body protection</b>	Wear suitable protective clothing. Protective shoes or boots.
<b>Hand Protection</b>	Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
<b>Respiratory protection</b>	None required under normal usage. 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.
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

Appearance	viscous
Color	amber
Physical State @20°C	liquid
Odor	Petroleum distillates
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range		Not applicable	
Flash point	202 °C 396 °F		ASTM D 92 ASTM D 92.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	-	No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.874	@ 15 °C	
Density	874 kg/m <sup>3</sup>	@ 15 °C	

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<b>Water solubility</b>		Not applicable	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		Not applicable	
<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	37 mm <sup>2</sup> /s	@ 40 °C	ASTM D 445
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing Properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	Not applicable		
<b>Other information</b>			
<b>Specific Gravity</b>	0.874	@ 15 °C	
<b>Freezing Point</b>		No information available	
<b>Pour point</b>	-34 °C		ASTM D 97

### 10. STABILITY AND REACTIVITY

<b><u>Reactivity</u></b>	No information available.
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of hazardous reactions</u></b>	None under normal processing.
<b><u>Conditions to Avoid</u></b>	Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.
<b><u>Incompatible Materials</u></b>	Strong oxidizing agents.
<b><u>Hazardous Decomposition Products</u></b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

#### Information on likely routes of exposure

#### Product Information

<b>Skin contact</b>	Causes mild skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Inhalation</b>	Not classified. Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Suspected of damaging fertility or the unborn child. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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### Numerical measures of toxicity - Product Information

ATEmix (oral)	5241 mg/kg
ATEmix (dermal)	5176 mg/kg
Inhalation	
ATEmix (inhalation-dust/mist)	5.5 mg/l
ATEmix (inhalation-vapor)	23.2 mg/l

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	LD50 3200 mg/kg (Rat - OECD 401)	LD50 > 2002 mg/kg (Rat - OECD 402)	
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts 70024-69-0	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 5000 mg/kg (Rabbit - OECD 402)	
Phenol, dodecyl-, branched 121158-58-5	LD50 2700 mg/kg (Rat)	LD50 > 3160 mg/kg (Rat)	

### Information on toxicological effects

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Redness. Itching.

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

**Serious eye damage/eye irritation** Irritating to eyes.  
**Sensitization** May cause an allergic skin reaction. Contains sensitizer(s).  
**Carcinogenicity** This product is not classified carcinogenic.

**Mutagenicity** This product is not classified as mutagenic.  
**Reproductive toxicity** Suspected of damaging fertility or the unborn child.  
**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).  
**Aspiration Hazard** Not classified.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Acute aquatic toxicity - Product Information

No experimental data available

#### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms



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Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	ErC50 (72h) 24 mg/l (Desmodesmus subspicatus - OECD 201)	LL50 (96h) 4.5 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) 23 mg/l (Daphnia magna - OECD 202)	
Benzene sulfonic acid, mono-C16-24-alkyl derivatives, calcium salts 70024-69-0	EC50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - static)	LL50 (96h) > 10000mg/l (WAF - Cyprinodon variegatus - OECD 203)	EC50 (48h) > 1000 mg/l (WAF - Daphnia magna - static)	
Phenol, dodecyl-, branched 121158-58-5	EbC50 (72h) 0.15 mg/l (Scenedesmus subspicatus - OECD 201)	EL50(96h) 40 mg/l Pimephales promelas semi-static (OECD 203)	EC50(48h) 0.037 mg/l (Daphnia magna - static - OECD 202)	

### Chronic aquatic toxicity - Product Information

No experimental data available

### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Phenol, dodecyl-, branched 121158-58-5		NOEC(21d) 0.0037 mg/l (Daphnia magna - semi-static - OECD 211)		

**Effects on terrestrial organisms** No experimental data available .

### Persistence and degradability

**General Information** No information available.

### Bioaccumulative potential

**Product Information** No information available.

**logPow** No information available

### Component Information

Chemical Name	log Pow
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	0.56
Phenol, dodecyl-, branched 121158-58-5	7.14

### Mobility

**Soil** Given its physical and chemical characteristics, the product generally shows low soil mobility

**Air** Loss by evaporation is limited

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**Water** The product is insoluble and floats on water  
Other adverse effects

**General Information** No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

**Waste Disposal Methods** Dispose of in accordance with local regulations.

**Contaminated packaging** Dispose of in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

### 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

ADN Not regulated

### 15. REGULATORY INFORMATION

International Inventories All the substances contained in this product are listed or exempted from listing in the following inventories:  
 U.S.A. (TSCA)

#### 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 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

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### 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).

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Phenol, dodecyl-, branched	121158-58-5	<1		Group V		

### 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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7	X				
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	X				

### 16. OTHER INFORMATION

<b>NFPA</b>	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-05-12  
 Revision Note: No information available  
 Abbreviations, acronyms

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### **Legend**

#### Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

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**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 the safety data sheet**