



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 09.26.2024

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### DuraMAX Full Synthetic 0W-30

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** DuraMAX Full Synthetic 0W-30

**Product code:** 950259030SY

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Full synthetic Engine oil, lubricant

**Uses Advised Against:** Any use than recommended above.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

##### Manufacturer or Supplier Details

###### Manufacturer:

###### United States

Reladyne, LLC

8280 Montgomery Road

Suite 101 Cincinnati, OH 45236

(888) 830-3156

sds@reladyne.com

www.reladyne.com

##### Emergency Telephone Number:

###### United States

INFOTRAC

(800) 535-5053 (24/7)

#### SECTION 2: Hazard(s) Identification

##### GHS Classification:

Respiratory sensitization, category 1

Skin sensitization, category 1

Carcinogenicity, category 1B

Reproductive toxicity, category 2

Specific target organ toxicity - repeated exposure, category 1

Aspiration hazard, category 1

##### Label elements

###### Hazard Pictograms:



**Signal Word:** Danger

##### Hazard statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H350 May cause cancer.

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H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways

### Precautionary Statements:

P261 Do not breathe mist, vapors or spray.

P284 In case of inadequate ventilation wear respiratory protection.

P272 Contaminated work clothing must not be allowed out of the workplace

P280 Wear protective gloves, protective clothing and eye protection.

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice.

P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).

P363 Wash contaminated clothing before reuse

P308+P313 If exposed or concerned: Get medical advice.

P314 Get medical attention if you feel unwell.

P331 Do NOT induce vomiting

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P405 Store locked up

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:** None

## SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 72623-86-0	Hydrotreated Neutral Oil-Based C15-C30	27.15-87.15
CAS Number: 72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<87.15
CAS Number: 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	<87.15
CAS Number: 64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	0.44-0.89
CAS Number: 64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic	0.44-0.89
CAS Number: 64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	0.44-0.89
CAS Number: 28629-66-5	Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	<0.61

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CAS Number: 28777-98-2	Dihydro-3-(octadecenyl)furan-2,5-dione	0.09-0.44
CAS Number: 2215-35-2	Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	<0.25

### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

#### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

#### After Swallowing:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

Inhalation exposure may cause allergy, asthma symptoms or breathing difficulties. Symptoms may include cough, chronic phlegm, shortness of breath, wheezing and chest tightness. Symptoms may be delayed.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

#### Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time).

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

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Causes damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of pulmonary edema may be delayed.

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

Not determined or not applicable.

#### Notes for the Doctor:

Treat symptomatically.

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

#### Unsuitable Extinguishing Media:

Do not use water jet.

### Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

Avoid unnecessary run-off of extinguishing media which may cause pollution.

## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways.

Discharge into the environment must be avoided.

### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways.

Discharge into the environment must be avoided.

### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

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Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

#### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

### SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

#### Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	8-Hour TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, poorly and mildly refined. Poorly and mildly refined: Exposure by all routes should be carefully controlled to levels as low as possible.)
	Hydrotreated Neutral Oil-Based C15-C30	72623-86-0	8-Hour TWA: 5 mg/m <sup>3</sup> (Mineral oil, inhalable fraction)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TLV-TWA: 5 mg/m <sup>3</sup> (8 hr [Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction])
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	TLV-TWA: 5 mg/m <sup>3</sup> (8-Hour Exposure Limit)
	Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	TLV-TWA: 5 mg/m <sup>3</sup> ([8 hr] mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA: 5 mg/m <sup>3</sup> (mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction)
OSHA	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (Petroleum distillates, mildly or poorly refined)
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	PEL: 5 mg/m <sup>3</sup> (OSHA Z-1 - OIL MIST (MINERAL))
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	PEL: 5 mg/m <sup>3</sup> (OSHA Z-1-A - OIL MIST (MINERAL))
	Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (oil mist [mineral])
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA-PEL: 2000 mg/m <sup>3</sup> ([500 ppm] Petroleum distillates, Naphtha; Rubber solvent)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (Oil mist, mineral)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA: 1600 mg/m <sup>3</sup> ([400 ppm] PETROLEUM DISTILLATES (NAPHTHA) (RUBBER SOLVENT))
NIOSH	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	REL-TWA: 5 mg/m <sup>3</sup> ([up to 10 hr] - Petroleum distillates, mildly or poorly refined)
	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	IDLH: 2500 mg/m <sup>3</sup> (Petroleum distillates, mildly or poorly refined)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	REL-TWA: 5 mg/m <sup>3</sup> (Oil mist [mineral] - for up to a 10-hour workday during a 40-hour workweek)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	STEL: 10 mg/m <sup>3</sup> (Oil mist [mineral])
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	IDLH: 2500 mg/m <sup>3</sup> (Mineral oil, mist)
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	REL: 5 mg/m <sup>3</sup> ([for up to a 10-hour workday during a 40-hour workweek])
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	IDLH: 2500 mg/m <sup>3</sup>
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	STEL: 10 mg/m <sup>3</sup>
	Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	REL-TWA: 5 mg/m <sup>3</sup> (up to 10 hr - oil mist [mineral])
	Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	IDLH: 2500 mg/m <sup>3</sup> (oil mist [mineral])
	Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	STEL: 10 mg/m <sup>3</sup> (oil mist [mineral])
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	REL-TWA: 350 mg/m <sup>3</sup> (Petroleum distillates, naphtha [up to 10 hr])
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	IDLH: 1100 ppm (Petroleum distillates, naphtha)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Ceiling Limit: 1800 mg/m <sup>3</sup> (Petroleum distillates, naphtha [15 min])
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	REL-TWA: 5 mg/m <sup>3</sup> (Oil mist, mineral [up to 10 hr])
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	15-Minute STEL: 10 mg/m <sup>3</sup> (Oil mist, mineral)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	IDLH: 2500 mg/m <sup>3</sup> (Oil mist, mineral)	
United States(California)	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (particulate - Petroleum distillates, mildly or poorly refined)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-Hour TWA: 5 mg/m <sup>3</sup> (Oil [mineral] mist)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	64742-70-7	8-Hour TWA: 5 mg/m <sup>3</sup>
	Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (oil [mineral] mist, particulate)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA-PEL: 1600 mg/m <sup>3</sup> ([400 ppm] Rubber solvent, naphtha)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (oil [mineral] mist, particulate)

### Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal Protection Equipment

#### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

Appearance	Amber Liquid
Odor	Mild Petroleum
Odor threshold	Not determined or not available.

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<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	Not determined or not available.
<b>Flash point (closed cup)</b>	>220 °C / > 428.0 °F
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</b>	Not determined or not available.
<b>Vapor pressure</b>	< 0.1 mmHg @ 20 °C
<b>Vapor density</b>	Not determined or not available.
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	0.84 - 0.855
<b>Solubilities</b>	Insoluble in Water
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	Not determined or not available.
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	>35 cSt @40 °C; ASTM D445
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

## SECTION 10: Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical Stability:

Stable under recommended handling and storage conditions.

### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

### Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### Incompatible Materials:

Strong oxidizing agents

### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

### Substance Data:

Name	Route	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: 2.18 mg/L (4 hr [aerosol])



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Name	Route	Result
Hydrotreated Neutral Oil-Based C15-C30	oral	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.3 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: > 2000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
	inhalation	LC50 Rat: 2.18 mg/L (4 hr [aerosol])
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	oral	LD50 Rat: >5000 mg/kg ([Read-across substance data])
	dermal	LD50 Rabbit: >5000 mg/kg ([Read-across substance data])
	inhalation	LC50 Rat: >5.53 mg/L (4 hr [aerosol, Read-across substance data])
Distillates (petroleum), solvent-dewaxed light paraffinic	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.53 mg/L (4 hr [aerosol])
Distillates (petroleum), solvent-dewaxed heavy paraffinic	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 2.18 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: > 5000 mg/kg
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	oral	LD50 Rat: 3200 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg ([Read-across substance data])
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	oral	LD50 Rat: 2230 mg/kg
	inhalation	LC50 Rat: >0.5 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: >3160 mg/kg

### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Causes skin irritation.
Dihydro-3-(octadecenyl)furan-2,5-dione	Causes skin irritation.
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Causes skin irritation.

### Serious Eye Damage/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Causes serious eye damage.

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Name	Result
Dihydro-3-(octadecenyl)furan-2,5-dione	Causes serious eye irritation.
Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl)bis(phosphorodithioate)	Causes serious eye damage.

#### Respiratory or Skin Sensitization

**Assessment:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Dihydro-3-(octadecenyl)furan-2,5-dione	May cause an allergic skin reaction.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Carcinogenicity

**Assessment:**

May cause cancer.

**Product Data:** No data available.

**Substance Data:**

Name	Species	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based		May cause cancer. Insufficiently refined lubricant base oils may be carcinogenic to the skin. Insufficiently refined based oils, containing $\geq$ 3% DMSO extract as measured by IP346, should be classified as a carcinogen. The carcinogen classification does not apply to sufficiently refined base oils, containing $\leq$ 3% DMSO extract as measured by IP346.
Hydrotreated Neutral Oil-Based C15-C30	Rat	May cause cancer via dermal route affecting the skin.
Distillates (petroleum), hydrotreated heavy paraffinic		May cause cancer.
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified		May cause cancer.
Distillates (petroleum), solvent-dewaxed light paraffinic		May cause cancer. Insufficiently refined lubricant base oils may be carcinogenic to the skin. Insufficiently refined based oils, containing $\geq$ 3% DMSO extract as measured by IP346, should be classified as a carcinogen. The carcinogen classification does not apply to sufficiently refined base oils, containing $\leq$ 3% DMSO extract as measured by IP346.
Distillates (petroleum), solvent-dewaxed heavy paraffinic		May cause cancer.

**International Agency for Research on Cancer (IARC):**

Name	Classification

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Name	Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Not Applicable
Hydrotreated Neutral Oil-Based C15-C30	Not Applicable
Distillates (petroleum), hydrotreated heavy paraffinic	Group 1
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Group 1
Distillates (petroleum), solvent-dewaxed light paraffinic	Not Applicable
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Group 1
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Not Applicable
Dihydro-3-(octadecenyl)furan-2,5-dione	Not Applicable
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Not Applicable

#### National Toxicology Program (NTP):

Name	Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Not Applicable
Hydrotreated Neutral Oil-Based C15-C30	Not Applicable
Distillates (petroleum), hydrotreated heavy paraffinic	Known to be human carcinogens
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Known to be human carcinogens
Distillates (petroleum), solvent-dewaxed light paraffinic	Not Applicable
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Known to be human carcinogens
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Not Applicable
Dihydro-3-(octadecenyl)furan-2,5-dione	Not Applicable
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Not Applicable

**OSHA Carcinogens:** Not applicable

#### Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

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### Product Data:

No data available.

**Substance Data:** No data available.

### Reproductive Toxicity

#### Assessment:

Suspected of damaging fertility or the unborn child.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Distillates (petroleum), hydrotreated heavy paraffinic	Suspected of damaging fertility or the unborn child.

### Specific Target Organ Toxicity (Single Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Specific Target Organ Toxicity (Repeated Exposure)

#### Assessment:

Causes damage to organs through prolonged or repeated exposure.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Distillates (petroleum), hydrotreated heavy paraffinic	Causes damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

#### Assessment:

May be fatal if swallowed and enters airways.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	May be fatal if swallowed and enters airways.
Hydrotreated Neutral Oil-Based C15-C30	May be fatal if swallowed and enters airways.
Distillates (petroleum), hydrotreated heavy paraffinic	May be fatal if swallowed and enters airways.
Distillates (petroleum), solvent-dewaxed light paraffinic	May be fatal if swallowed and enters airways.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	May be fatal if swallowed and enters airways.

### Information on Likely Routes of Exposure:

No data available.

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### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

### Other Information:

No data available.

## SECTION 12: Ecological Information

### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Aquatic Invertebrates EC50 Daphnia magna: >10,000 mg/L (EL50; 48 hr[mobility])
	Fish LC50 Pimephales promelas: >100 mg/L (LL50; 96hr)
Hydrotreated Neutral Oil-Based C15-C30	Fish LC50 Pimephales promelas: > 100 mg/L (96 hr; LL50)
	Aquatic Invertebrates EC50 Daphnia magna: >= 10,000 mg/L (48 hr [mobility]; EL50)
Distillates (petroleum), hydrotreated heavy paraffinic	Fish LC50 Pimephales promelas: >100 mg/L (96 hr [LL50-mortality])
	Aquatic Invertebrates EC50 Daphnia magna: >10,000 mg/L (48 hr [EL50-mobility, Read-across substance data])
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Fish LC50 Pimephales promelas: >100 mg/L (96 hr [LL50])
	Aquatic Invertebrates EC50 Daphnia magna: >10,000 mg/L (48 hr [EL50-mobility, Read-across substance data])
Distillates (petroleum), solvent-dewaxed light paraffinic	Fish LC50 Pimephales promelas: >100 mg/L (96 hr [LL50 - mortality])
	Aquatic Invertebrates EC50 Daphnia magna: >10000 mg/L (48 hr [EL50 - mobility])
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Fish LC50 Pimephales promelas: > 100 mg/L (96 hr [LL50 - mortality])
	Aquatic Invertebrates EC50 Daphnia magna: > 10,000 mg/L (48 hr [EL50 - mobility, Read-across substance data])
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Fish LC50 Cyprinodon variegatus: 46 mg/L (96 hr [Read-across substance data])
	Aquatic Invertebrates EC50 Daphnia magna: 510 mg/L (48 hr [EL50-mobility])
	Aquatic Plants EC50 Desmodemus subspicatus: 410 mg/L (72 hr [EL50-growth rate, Read-across substance data])
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Fish LC50 Cyprinodon variegatus: 46 mg/L (96 hr [Read-across substance data])
	Aquatic Invertebrates EC50 Daphnia magna: 23 mg/L (48 hr [EL50-mobility, Read-across substance data])
	Aquatic Plants EC50 Scenedesmus subspicatus: 24 mg/L (72 hr [EL50-growth rate, Read-across substance data])

### Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

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Name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Aquatic Invertebrates NOEC Daphnia magna: 10 mg/L (NOEL; 21d [reproduction])
	Fish NOEC Oncorhynchus mykiss: >= 1000 mg/L (NOELR; 14d)
Hydrotreated Neutral Oil-Based C15-C30	Aquatic Invertebrates NOEC Daphnia magna: > 1000 mg/L (21 d [reproduction] NOEL)
Distillates (petroleum), hydrotreated heavy paraffinic	Fish NOEC Oncorhynchus mykiss: >=1000 mg/L (14 d [NOELR-mortality, QSAR data])
	Aquatic Invertebrates NOEC Daphnia magna: 10 mg/L (21 d[NOEL-reproduction, Read-across substance data])
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Fish NOEC Oncorhynchus mykiss: >=1000 mg/L (14 d [NOELR-mortality, QSAR substance data])
	Aquatic Invertebrates NOEC Daphnia magna: 10 mg/L (21 d [NOEL-reproduction, Read-across substance data])
Distillates (petroleum), solvent-dewaxed light paraffinic	Aquatic Invertebrates NOEC Daphnia magna: 10 mg/L (21 d [NOEL - reproduction])
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Aquatic Invertebrates NOEC Daphnia magna: 10 mg/L (21 d [NOEL - reproduction, Read-across substance data])
	Fish NOEC Oncorhynchus mykiss: >=1000 mg/L (14 d [NOEL-mortality, Read-across substance data])
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Aquatic Invertebrates NOEC Daphnia magna: 0.53 mg/L (21 d [growth, Read-across substance data])
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Aquatic Invertebrates NOEC Daphnia magna: 0.53 mg/L (21 d [growth, Read-across substance data])

### Persistence and Degradability

**Product Data:** No data available.

#### Substance Data:

Name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	The substance is inherently biodegradable, 31% degradation measured by O2 consumption after 28 days.
Hydrotreated Neutral Oil-Based C15-C30	Standard biodegradability studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), hydrotreated heavy paraffinic	Standard biodegradability studies are not applicable to petroleum UVCB substances.
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	The substance is inherently biodegradable. 31% degradation in water, measured by O2 consumption, after 28 days (Read-across substance data).
Distillates (petroleum), solvent-dewaxed light paraffinic	The substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Standard biodegradability studies are not applicable to petroleum UVCB substances.
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	The substance is not readily biodegradable. <5% degradation in water, measured by O2 consumption, after 27 days (Read-across substance data).

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Name	Result
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	The substance is not readily biodegradable. 1.5% degradation in water, measured by CO2 evolution, after 28 days(Read-across substance data).

### Bioaccumulative Potential

**Product Data:** No data available.

#### Substance Data:

Name	Result
Hydrotreated Neutral Oil-Based C15-C30	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), hydrotreated heavy paraffinic	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), solvent-dewaxed light paraffinic	The substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Standard bioaccumulation studies are not applicable to UVCB substances.
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	The substance is not expected to bioaccumulate (log Pow: 2.21 at 20 °C).

### Mobility in Soil

**Product Data:** No data available.

#### Substance Data:

Name	Result
Hydrotreated Neutral Oil-Based C15-C30	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), hydrotreated heavy paraffinic	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), solvent-dewaxed light paraffinic	The substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Standard adsorption/desorption studies are not applicable to UVCB substances.
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	The endpoint is not applicable because the substance has a very low octanol water partition coefficient.

### Results of PBT and vPvB assessment

**Product Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

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**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance Data:**

**PBT assessment:**

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	The substance is not PBT.
Hydrotreated Neutral Oil-Based C15-C30	The substance is not PBT.
Distillates (petroleum), hydrotreated heavy paraffinic	Standard PBT studies are not applicable to petroleum UVCB substances.
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Standard PBT studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), solvent-dewaxed light paraffinic	The substance is a UVCB and does not contain constituents included in the SVHC candidate list as PBT at concentrations above 0.1%.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Standard PBT studies are not applicable to petroleum UVCB substances.
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Standard PBT studies are not applicable to UVCB substances.
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	The substance is not PBT.

**vPvB assessment:**

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	The substance is not vPvB.
Hydrotreated Neutral Oil-Based C15-C30	The substance is not vPvB.
Distillates (petroleum), hydrotreated heavy paraffinic	Standard vBvB studies are not applicable to petroleum UVCB substances.
Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Standard vBvB studies are not applicable to petroleum UVCB substances.
Distillates (petroleum), solvent-dewaxed light paraffinic	The substance is a UVCB and does not contain constituents included in the SVHC candidate list as vPvB at concentrations above 0.1%.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Standard vBvB studies are not applicable to petroleum UVCB substances.
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Standard vBvB studies are not applicable to UVCB substances.
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	The substance is not vPvB.

**Other Adverse Effects:** No data available.

### SECTION 13: Disposal Considerations

**Disposal Methods:**



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It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

### International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

### SARA Section 313 Toxic Chemicals:

28629-66-5	Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Listed
2215-35-2	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Listed

### CERCLA:

28629-66-5	Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Listed	
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2215-35-2	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Listed	
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### RCRA:

2215-35-2	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Listed	K036, K037, K038, K039, K040
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**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

### Massachusetts Right to Know:

64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Listed
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic	Listed

### New Jersey Right to Know:

64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Listed
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	Listed
28629-66-5	Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Listed
2215-35-2	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Listed

### New York Right to Know:

28629-66-5	Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Listed
2215-35-2	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Listed

### Pennsylvania Right to Know:

64742-70-7	Paraffin oils (petroleum), catalytic dewaxed heavy Baseoil - unspecified	Listed
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	Listed
28629-66-5	Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	Listed
2215-35-2	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	Listed

**California Proposition 65:** None of the ingredients are listed.

**Additional information:** Not determined.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 0-1-0

**HMIS:** 0-1-0-X

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**End of Safety Data Sheet**