

# SAFETY DATA SHEET



FVP FULL SYNTHETIC 10W-30 MOTOR OIL 55 GAL

## Section 1. Identification

**GHS product identifier** : FVP FULL SYNTHETIC 10W-30 MOTOR OIL 55 GAL  
**Product code** : 10W30FS-55GAL  
**Other means of identification** : Not available.  
**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Lubricating Oil Synthetic

#### Uses advised against

Not applicable.

**Supplier's details** : Factory Motor Parts  
1380 Corporate Center Curve, Suite 200  
Eagan, MN 55121  
866-387-3343

**Emergency telephone number (with hours of operation)** : INFOTRAC 1-800-535-5053

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN SENSITIZATION - Category 1

### GHS label elements

#### Hazard pictograms



**Signal word** : Warning

**Hazard statements** : May cause an allergic skin reaction.

### Precautionary statements

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

**Prevention** : Wear protective gloves. Avoid breathing vapor.

**Response** : IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

Ingredient name	%	Identifiers
Distillates (petroleum), hydrotreated heavy paraffinic	≥90	CAS: 64742-54-7
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≥90	CAS: 72623-87-1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤10	CAS: 64742-65-0
Distillates (petroleum), solvent-dewaxed light paraffinic	≤5	CAS: 64742-56-9
Distillates (petroleum), hydrotreated light paraffinic	≤5	CAS: 64742-55-8
zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	<2.5	CAS: 2215-35-2
dihydro-3-(octadecenyl)furan-2,5-dione	≤0.3	CAS: 28777-98-2

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.

## Section 4. First aid measures

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	<b>NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]</b> TWA 10 hours: 5 mg/m <sup>3</sup> . Form: Mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist. <b>OSHA PEL (United States, 5/2018) [Oil mist, mineral]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . <b>ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Inhalable fraction.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<b>NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]</b> TWA 10 hours: 5 mg/m <sup>3</sup> . Form: Mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]</b> TWA 10 hours: 5 mg/m <sup>3</sup> . Form: Mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist.

## Section 8. Exposure controls/personal protection

Distillates (petroleum), solvent-dewaxed light paraffinic

**OSHA PEL (United States, 5/2018) [Oil mist, mineral]**

TWA 8 hours: 5 mg/m<sup>3</sup>.

**ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable fraction.

**NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]**

TWA 10 hours: 5 mg/m<sup>3</sup>. Form: Mist.

STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Mist.

**OSHA PEL (United States, 5/2018) [Oil mist, mineral]**

TWA 8 hours: 5 mg/m<sup>3</sup>.

**ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable fraction.

**NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]**

TWA 10 hours: 5 mg/m<sup>3</sup>. Form: Mist.

STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Mist.

**OSHA PEL (United States, 5/2018) [Oil mist, mineral]**

TWA 8 hours: 5 mg/m<sup>3</sup>.

**ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable fraction.

Distillates (petroleum), hydrotreated light paraffinic

None.

None.

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) dihydro-3-(octadecenyl)furan-2,5-dione

### Biological exposure indices

No exposure indices known.

### Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : 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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Pale color. Orange.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: 251°C (483.8°F) [Pensky-Martens]
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			

- Relative vapor density** : Not available.
- Relative density** : 0.854
- Solubility(ies)** :

Media	Result
cold water	Not soluble
hot water	Not soluble

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** :

## Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
zinc bis(O,O-diisooctyl) bis(dithiophosphate)	198	388.4	

**Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): 68.3 mm<sup>2</sup>/s (68.3 cSt)

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

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

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

##### Result

**Rat - Oral - LD50**

>5000 mg/kg

**Rabbit - Dermal - LD50**

>2000 mg/kg

**Rat - Inhalation - LC50 Dusts and mists**

5.7 mg/l [4 hours]

**Rat - Oral - LD50**

>5000 mg/kg

**Rabbit - Dermal - LD50**

>2000 mg/kg

**Rat - Inhalation - LC50 Dusts and mists**

2.18 mg/l [4 hours]

**Rat - Oral - LD50**

>5000 mg/kg

**Rabbit - Dermal - LD50**

>2000 mg/kg

**Rat - Inhalation - LC50 Dusts and mists**

>5.53 mg/l [4 hours]

**Rabbit - Dermal - LD50**

>5000 mg/kg

**Rat - Oral - LD50**

>5000 mg/kg

**Rat - Dermal - LD50**

>2000 mg/kg

**Rat - Oral - LD50**

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), solvent-dewaxed light paraffinic

Distillates (petroleum), hydrotreated light

## Section 11. Toxicological information

paraffinic	>5000 mg/kg <b>Rabbit - Dermal - LD50</b> >2000 mg/kg <b>Rat - Inhalation - LC50 Dusts and mists</b> >5.53 mg/l [4 hours] <b>Rat - Oral - LD50</b> 2600 mg/kg <b>Rabbit - Dermal - LD50</b> >3160 mg/kg OECD [Acute Dermal Toxicity] <b>Rat - Inhalation - LC50 Dusts and mists</b> >2 mg/l [1 hours] OECD [Acute Inhalation Toxicity] <b>Rat - Oral - LD50</b> >2000 mg/kg OECD [Acute Oral Toxicity: Up-and-Down Procedure] <b>Rat - Dermal - LD50</b> >2000 mg/kg OECD [Acute Dermal Toxicity]
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	
dihydro-3-(octadecenyl)furan-2,5-dione	

**Conclusion/Summary [Product]** : Not available.

### Skin corrosion/irritation

#### **Product/ingredient name**

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)  
dihydro-3-(octadecenyl)furan-2,5-dione

#### **Result**

**Rat - Skin - Moderate irritant**

**Rabbit - Skin - Irritant**

OECD [Acute Dermal Irritation/Corrosion]

Duration of treatment/exposure: 4 hours

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

#### **Product/ingredient name**

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)

#### **Result**

**Rat - Eyes - Moderate irritant**

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

#### **Product/ingredient name**

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)

#### **Result**

**Guinea pig - skin**

OECD [Skin Sensitization]

Result: Not sensitizing

dihydro-3-(octadecenyl)furan-2,5-dione

**Guinea pig - skin**

OECD [Skin Sensitization]

Result: Sensitizing

### **Skin**

## Section 11. Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Respiratory

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

#### Product/ingredient name

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)

#### Result

##### Bacteria

OECD [Bacterial Reverse Mutation Test]  
Result: Negative

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Ingredient name

☑ Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

#### Conclusion/Summary

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

### Reproductive toxicity

#### Product/ingredient name

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)

#### Result

##### Rat - Male, Female - Oral

OECD [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test]  
160 mg/kg

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

#### Product/ingredient name

Distillates (petroleum), solvent-dewaxed light paraffinic  
Distillates (petroleum), hydrotreated light paraffinic

#### Result

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

## Section 11. Toxicological information

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> Del-Ray BRX Elite Full Synthetic 10W-30 Distillates (petroleum), hydrotreated heavy paraffinic Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	481344.8	53236.2	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/A	2500	N/A	N/A	5.7
Distillates (petroleum), solvent-dewaxed light paraffinic	N/A	2500	N/A	N/A	N/A
Distillates (petroleum), hydrotreated light paraffinic	N/A	2500	N/A	N/A	N/A
zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	2600	2500	N/A	N/A	N/A
dihydro-3-(octadecenyl)furan-2,5-dione	2500	2500	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

#### Result

##### Acute - IC50

Algae  
>100 mg/l [72 hours]

##### Acute - EC50

Daphnia  
>100 mg/l [48 hours]

##### Acute - LC50

Fish  
>100 mg/l [96 hours]

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

##### Acute - LC50

Fish  
>100 mg/l [96 hours]

##### Acute - EC50

Crustaceans  
>100 mg/l [48 hours]

##### Acute - EC50

Algae  
>100 mg/l [72 hours]

Distillates (petroleum), solvent-dewaxed heavy paraffinic

##### Acute - LC50

Fish  
>100 mg/l [96 hours]

##### Acute - EC50

Daphnia  
>100 mg/l [48 hours]

##### Acute - EC50

Algae  
>100 mg/l [72 hours]

##### Chronic - NOEL

Daphnia  
>1 mg/l [21 days]

Distillates (petroleum), solvent-dewaxed light paraffinic

##### Acute - LC50

Fish - Trout  
4.5 mg/l [96 hours]

Distillates (petroleum), hydrotreated light paraffinic

##### Acute - EC50

Daphnia  
>100 mg/l [48 hours]

##### Acute - EC50

Algae  
>100 mg/l [72 hours]

##### Acute - LC50

Fish  
>100 mg/l [96 hours]

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)

##### LC50

Fish - Trout  
4.5 mg/l [4 days]

##### NOEC

Fish - Trout  
1.8 mg/l [4 days]

##### EC50

Daphnia - Daphnia  
23 mg/l [2 days]

##### NOEC

Daphnia  
0.4 mg/l [21 days]

##### EC50

Aquatic plants - Algae  
>100 mg/l [3 days]

dihydro-3-(octadecenyl)furan-2,5-dione

##### Acute - LC50

## Section 12. Ecological information

OECD [Fish, Acute Toxicity Test]  
Fish  
>10 mg/l [96 hours]

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

#### Product/ingredient name

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis  
(phosphorodithioate)

#### Result

OECD [Ready Biodegradability - CO<sub>2</sub> Evolution Test]  
1.5% [28 days]  
OECD [Ready Biodegradability - CO<sub>2</sub> Evolution Test]  
1.5% [28 days] - Not readily

**Conclusion/Summary [Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	-	-	Not readily Inherent
Distillates (petroleum), hydrotreated light paraffinic zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	-	-	Inherent Not readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	>6	-	High
Distillates (petroleum), solvent-dewaxed heavy paraffinic	>6	-	High
Distillates (petroleum), hydrotreated light paraffinic	2 to 6	-	High
Distillates (petroleum), hydrotreated light paraffinic	>6	-	High

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been

## Section 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 4(a) proposed test rules:** dihydro-3-(octadecenyl)furan-2,5-dione  
**TSCA 8(a) PAIR:** naphthalene  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 307:** zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate); zinc bis(O,O-diisooctyl) bis(dithiophosphate)

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

## Section 15. Regulatory information

**Classification** : SKIN SENSITIZATION - Category 1

### Composition/information on ingredients

Name	%	Classification
Distillates (petroleum), solvent-dewaxed light paraffinic	≤5	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light paraffinic	≤5	ASPIRATION HAZARD - Category 1
zinc O,O',O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	<2.5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
dihydro-3-(octadecenyl)furan-2,5-dione	≤0.3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	2215-35-2	<2.5
<b>Supplier notification</b>	zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	2215-35-2	<2.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : None of the components are listed.
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: ZINC compounds
- Pennsylvania** : The following components are listed: ZINC COMPOUNDS
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed, exempted, or notified.
- Eurasian Economic Union** : **Russian Federation inventory**: Not determined.
- Japan** : **Japan inventory (CSCL)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed, exempted, or notified.

## Section 15. Regulatory information

<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: Not determined.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	/	2
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method

### History

<b>Date of printing</b>	: 8/6/2025
<b>Date of issue/Date of revision</b>	: 8/6/2025
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<b>Version</b>	: 5

### Key to abbreviations

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: DOT = Department of Transportation
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: IMO = International Maritime Organization
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: N/A = Not available
: SGG = Segregation Group
: TDG = Transportation of Dangerous Goods
: UN = United Nations

### References

: Not available.

▣ Indicates information that has changed from previously issued version.

## Section 16. Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.