SAFETY DATA SHEET



XPR SAE 5W-50 RACING OIL

Section 1. Identification

GHS product identifier : XPR SAE 5W-50 RACING OIL

Product code : 302196175008 Other means of : Not available. identification

Product type : Liquid.

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

| Identified uses | | |
|---|--------|--|
| Consumer products: Lubricating Oil Synthetic Industrial applications: Lubricating Oil Synthetic | | |
| Uses advised against | Reason | |
| None known. | | |

Supplier's details : Calumet Branded Products, LLC

2780 Waterfront Pkwy E. Drive Suite 200

Indianapolis, IN 46214

USA

Technical Services:317-328-5660

Emergency telephone

number

: 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.5%

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

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 : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. **Hazards not otherwise** : None known.

classified

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Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture: Not available.

| Ingredient name | % | CAS number |
|---|------|-------------|
| ☑ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ≤10 | 72623-87-1 |
| Dec-1-ene, trimers, hydrogenated | ≤10 | 68037-01-4 |
| Distillates (petroleum), hydrotreated middle | ≤5 | 64742-46-7 |
| Distillates (petroleum), hydrotreated heavy paraffinic | ≤2.9 | 64742-54-7 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ≤2.9 | 64742-65-0 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | ≤2.9 | 64742-56-9 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | ≤2.7 | 64742-70-7 |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | ≤2 | 113706-15-3 |

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. Get medical attention if irritation

occurs.

Inhalation
 : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in

a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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

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Section 4. First aid measures

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

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 nitrogen oxides 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. 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 nonemergency 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).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures

Advice on general occupational hygiene

- Put on appropriate personal protective equipment (see Section 8).
- : 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.

including any incompatibilities

Conditions for safe storage, : 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 |
|--|---|
| ☑ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist |
| Dec-1-ene, trimers, hydrogenated | None. |
| Distillates (petroleum), hydrotreated middle | ACGIH TLV (United States). As total hydrocarbon vapor: 200 mg/m³ 8 hours. NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] |
| | TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist |
| Distillates (petroleum), hydrotreated heavy paraffinic | OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m³ 8 hours. |
| | ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL |
| | MIST MINERAL] TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m³ 10 hours. Form: Mist |
| Distillates (petroleum), solvent-dewaxed light paraffinic | STEL: 10 mg/m³ 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). [Oil mist, mineral] |

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Section 8. Exposure controls/personal protection

TWA: 5 mg/m³ 8 hours.

ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined]

TWA: 5 mg/m³ 8 hours. Form: Inhalable

fraction

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

TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). [Oil

mist, mineral]

TWA: 5 mg/m³ 8 hours.

ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined]

TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction

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

TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts

Paraffin oils (petroleum), catalytic dewaxed heavy

Biological exposure indices

None known.

Appropriate engineering controls

Environmental exposure controls

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

None.

: 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eve/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 sideshields.

Skin 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.

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.

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Section 8. Exposure controls/personal protection

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
Color
: Purple.

Odor
: Not available.

Odor threshold
: Not available.

Melting point/freezing point
: Not available.

Boiling point, initial boiling
point, and boiling range
: Liquid.
: Purple.

Not available.

Not available.

Flash point : Open cup: 224.44°C (436°F) [Cleveland]

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not available.

Vapor pressure

limit/flammability limit

| | Vapo | Vapor Pressure at 20°C | | Vapor pressure at 50 | | |
|--|-------|------------------------|-------------|----------------------|-----|--------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| vinyl acetate | 84.76 | 11.3 | | | | |
| benzene | 75.01 | 10 | | | | |
| toluene | 23.17 | 3.1 | | | | |
| ethylenediamine | 10.5 | 1.4 | | | | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based | <0.08 | <0.011 | ASTM D 5191 | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic | <0.08 | <0.011 | ASTM D 5191 | | | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | <0.08 | <0.011 | ASTM D 5191 | | | |
| Distillates (petroleum), solvent-dewaxed light paraffinic | <0.08 | <0.011 | ASTM D 5191 | | | |
| Paraffin oils (petroleum), catalytic dewaxed heavy | <0.08 | <0.011 | ASTM D 5191 | | | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based | <0.08 | <0.011 | ASTM D 5191 | | | |
| Distillates (petroleum), hydrotreated heavy naphthenic | <0.08 | <0.011 | ASTM D 5191 | | | |
| Distillates (petroleum), hydrotreated light paraffinic | <0.08 | <0.011 | ASTM D 5191 | | | |
| naphthalene | 0.054 | 0.0072 | OECD 104 | | | |

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Section 9. Physical and chemical properties and safety characteristics

| Solvent naphtha (petroleum), heavy arom. | 0.02 | 0.0027 | | | | |
|--|-------------|---------------|-------------------|--------|---------|--------|
| Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts | 0.000052 | 0.0000069 | EU A.4 | 0.0003 | 0.00004 | EU A.4 |
| Dec-1-ene, trimers, hydrogenated | 0.000000002 | 0.00000000027 | EU A.4 | | | |
| Dec-1-ene, homopolymer, hydrogenated | 0 | 0 | ASTM E 1194-87 | | | |
| Synthetic Polyol Ester | 0 | 0 | | | | |
| 4,4'-methylene bis (dibutyldithiocarbamate) | <0 | <0 | | | | |

Relative vapor density

Relative density

: 0.8731

Solubility(ies) Solubility in water : Not available.

: Not available.

Partition coefficient: n-

: Not available. : Not applicable.

octanol/water

Auto-ignition temperature

| Ingredient name | (| °C | °F | Method |
|--------------------------------------|--------------|------------|-----------------|-------------|
| Solvent naphtha (petroleu arom. | m), heavy | 220 to 250 | 428 to 482 | ASTM E 659 |
| Distillates (petroleum), hyd middle | drotreated | 225 | 437 | |
| Dec-1-ene, homopolymer, hydrogenated | 3 | 343 to 369 | 649.4 to 696.2 | ASTM D 2159 |
| 2-Butenedioic acid (E)-, di esters | -C8-18-alkyl | 380 | 716 | |
| vinyl acetate | 4 | 402 | 755.6 | |
| ethylenediamine | 4 | 405 | 761 | DIN 51794 |
| toluene | 4 | 480 | 896 | |
| benzene | 4 | 498 | 928.4 | |
| naphthalene | 5 | 526 to 587 | 978.8 to 1088.6 | DIN 51794 |

Decomposition temperature: Not available.

Viscosity

: Kinematic (40°C (104°F)): 71.96 mm²/s (71.96 cSt)

Flow time (ISO 2431)

: Not available.

Pour point

: -44°C (-47.2°F)

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.

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Section 10. Stability and reactivity

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 | Result | Species | Dose | Exposure |
|---|---------------------------------|--------------------------|-------------|----------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | _ |
| Dec-1-ene, trimers, hydrogenated | LD50 Oral | Rat | >2000 mg/kg | - |
| Distillates (petroleum), hydrotreated middle | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| * | LD50 Oral | Rat | >5000 mg/kg | - |
| Distillates (petroleum), hydrotreated heavy paraffinic | LC50 Inhalation Dusts and mists | Rat | 5.7 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | LC50 Inhalation Dusts and mists | Rat | >5.53 mg/l | 4 hours |
| paramino | LD50 Dermal | Rabbit | >2000 mg/kg | _ |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Distillates (petroleum), solvent-dewaxed light | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| paraffinic | LD50 Dermal | Rat | >2000 mg/kg | |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Paraffin oils (petroleum), catalytic dewaxed heavy | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | LD50 Dermal | Rabbit - Male, Female | >3160 mg/kg | - |
| | LD50 Oral | Rat | 2600 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|------------------------|------------|-------|-----------|-------------|
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | Eyes - Severe irritant | Rabbit | - | 504 hours | - |
| , | Skin - Irritant | Guinea pig | - | 4 hours | - |

Sensitization

| Product/ingredient name | Route of exposure | Species | Result |
|---|-------------------|------------|-----------------|
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | skin | Guinea pig | Not sensitizing |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

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Section 11. Toxicological information

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Name | Result |
|---|--------------------------------|
| Dec-1-ene, trimers, hydrogenated | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated middle | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | ASPIRATION HAZARD - Category 1 |

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 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 : No specific data.

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 : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General
 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.
 No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

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Section 11. Toxicological information

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/ I) |
|---|------------------|-------------------|--------------------------------|----------------------------------|---|
| ₹PR SAE 5W-50 | 15173.9 | 3790.8 | N/A | N/A | N/A |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | N/A | 2500 | N/A | N/A | N/A |
| Dec-1-ene, trimers, hydrogenated | 2500 | N/A | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated middle | N/A | 2500 | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated heavy paraffinic | N/A | 2500 | N/A | N/A | 5.7 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | N/A | 2500 | N/A | N/A | N/A |
| Distillates (petroleum), solvent-dewaxed light paraffinic | N/A | 2500 | N/A | N/A | N/A |
| Paraffin oils (petroleum), catalytic dewaxed heavy | N/A | 2500 | N/A | N/A | N/A |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 2600 | 2500 | N/A | N/A | N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|--------------------------------------|----------------|----------------------------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | Acute EC50 >100 mg/l | Algae | 72 hours |
| | Acute EC50 >100 mg/l | Crustaceans | 48 hours |
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| Dec-1-ene, trimers, hydrogenated | Acute NOEC 2 mg/l (similar material) | Micro-organism | 28 days (similar material) |
| Distillates (petroleum), hydrotreated heavy paraffinic | Acute EC50 >100 mg/l | Daphnia | 48 hours |
| | Acute IC50 >100 mg/l | Algae | 72 hours |
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Acute EC50 >100 mg/l | Algae | 72 hours |
| • | Acute EC50 >100 mg/l | Daphnia | 48 hours |
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| | Chronic NOEL >1 mg/l | Daphnia | 21 days |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | LC50 4.5 mg/l | Fish | 96 hours |

Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|---|------|----------|
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | Ready Biodegradability - CO ₂ Evolution Test | 1.5 % - Not readily - 28 days 1.5 % - Not readily - 28 days | - | - |

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Section 12. Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| ✓ubricating oils (petroleum), C20-50, hydrotreated neutral | - | - | Inherent |
| oil-based Dec-1-ene, trimers, | _ | _ | Not readily |
| hydrogenated | | | , |
| Distillates (petroleum), hydrotreated heavy paraffinic | - | - | Not readily |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | - | - | Not readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|-----|-----------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | >6 | - | high |
| Dec-1-ene, trimers, hydrogenated | >6.5 | - | high |
| Distillates (petroleum), hydrotreated heavy paraffinic | >6 | - | high |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 2 to 6 | - | high |

Mobility in soil

Soil/water partition coefficient (Koc)

: 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. 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 | IMDG | IATA |
|-----------|--------------------|--------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |

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 : Not available. to IMO instruments

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Section 15. Regulatory information

U.S. Federal regulations

: TSCA 4(a) final test rules: 2-Butenedioic acid (E)-, di-C8-18-alkyl esters

TSCA 8(a) PAIR: 2-Butenedioic acid (E)-, di-C8-18-alkyl esters; naphthalene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts; toluene; benzene

Clean Water Act (CWA) 311: toluene; benzene; ethylenediamine

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**

: 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)

DEA List II Chemicals

: Not listed

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

| | | | SARA 302 TPQ | | SARA 304 RQ | |
|-------------------------------|--------------|--------------|---------------|---------------|--------------|----------------|
| Name | % | EHS | (lbs) | (gallons) | (lbs) | (gallons) |
| ethylenediamine vinyl acetate | <0.1 <0.1 | Yes. Yes. | 10000 1000 | 1337.1 129 | 5000 5000 | 668.5 644.8 |

SARA 304 RQ : 64984013.9 lbs / 29502742.3 kg [8926583.4 gal / 33790794.1 L]

SARA 311/312

Classification : Not applicable. **Composition/information on ingredients**

| Name | % | Classification |
|--|------|---|
| Dec-1-ene, trimers, hydrogenated | ≤10 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated middle | ≤5 | FLAMMABLE LIQUIDS - Category 4 ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent- dewaxed light paraffinic | ≤2.9 | ASPIRATION HAZARD - Category 1 |
| Phosphorodithioic acid, mixed O, O-bis(sec-Bu and isooctyl) esters, zinc salts | ≤2 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A |

SARA 313

| Product name | CAS number | % |
|---|-------------|----|
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 113706-15-3 | ≤2 |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 113706-15-3 | ≤2 |

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.

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Section 15. Regulatory information

: The following components are listed: ZINC compounds **New Jersey Pennsylvania** : The following components are listed: ZINC COMPOUNDS

California Prop. 65

MARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Information provided is based on industrial use and may not be relevant to consumer applications.

| Ingredient name | | level | Maximum acceptable dosage level |
|-----------------|--------|-------|---------------------------------|
| Voluene | 0.0146 | - | Yes. |
| Benzene | 0.0146 | Yes. | Yes. |

International lists

National inventory

Australia : MI components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted.

Eurasian Economic Union : Russian Federation inventory: Not determined.

New Zealand : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

Taiwan : Not determined. : Not determined. **Thailand Turkey** : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

Section 16. Other information

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

History

Date of issue/Date of 12/14/2022

revision

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Version 2.01

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Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

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

UN = United Nations

▼ Indicates information that has changed from previously issued version.

Notice to reader

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