

# SAFETY DATA SHEET

## Section 1. Identification

**GHS product identifier** : Mystik Bar and Chain Lubricant  
**Other means of identification** : Lubricating oil  
**Product code** : 663605002

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

#### Identified uses

Lubricating oil

**This product is not recommended for any use other than the identified uses above.**

**Supplier's details** : CITGO Petroleum Corporation  
P.O. Box 4689  
Houston, TX 77210  
sdsvend@citgo.com

**Emergency telephone number (with hours of operation)** : Technical Contact: (800) 248-4684  
Medical Emergency: (832) 486-4700  
CHEMTREC Emergency: (800) 424-9300  
(United States Only)

## 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  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2  
AQUATIC HAZARD (LONG-TERM) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 100%

### GHS label elements

#### Hazard pictograms



**Signal word** : Warning

**Hazard statements** : H317 - May cause an allergic skin reaction.  
H351 - Suspected of causing cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

**General** : P102 - Keep out of reach of children.

**Prevention** : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P273 - Avoid release to the environment.  
P262 - Do not get in eyes, on skin, or on clothing.  
P261 - Avoid breathing vapor.

## Section 2. Hazards identification

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Response</b>                         | : P308 + P313 - IF exposed or concerned: Get medical advice or attention.<br>P302 + P352 - IF ON SKIN: Wash with plenty of water.<br>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P362 + P364 - Take off contaminated clothing and wash it before reuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>                          | : P401 - Store in accordance with all local, regional, national and international regulations.<br>P405 - Store locked up.<br>P402 + P404 - Store in a dry place and a closed container.<br>Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material. |
| <b>Disposal</b>                         | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Don't Pollute. Conserve Resources. Return used oil to collection centers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Hazards not otherwise classified</b> | : None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hazards identified when used</b>     | : No known significant effects or critical hazards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Section 3. Composition/information on ingredients

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Substance/mixture</b>             | : Mixture         |
| <b>Other means of identification</b> | : Lubricating oil |

| Ingredient name                                                      | %         | Identifiers                 |
|----------------------------------------------------------------------|-----------|-----------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic               | ≥80       | CAS: 64742-54-7             |
| Distillates (petroleum), hydrotreated heavy naphthenic               | ≥60 - ≤80 | CAS: 64742-52-5             |
| Residual oils (petroleum), solvent-dewaxed                           | ≥45 - ≤70 | CAS: 64742-62-7             |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic            | ≥45 - ≤70 | CAS: 64742-65-0             |
| Distillates (petroleum), solvent-dewaxed light paraffinic            | ≥45 - ≤70 | CAS: 64742-56-9             |
| Distillates (petroleum), solvent-refined light paraffinic            | ≥45 - ≤70 | CAS: 64741-89-5             |
| Distillates (petroleum), solvent-refined heavy paraffinic            | ≥30 - ≤60 | CAS: 64742-65-0, 64742-54-7 |
| Residual oils (petroleum,) solvent-refined                           | ≥30 - ≤60 | CAS: 64742-01-4             |
| Distillates (petroleum), hydrotreated light paraffinic               | ≥30 - ≤60 | CAS: 64742-55-8             |
| Distillates, petroleum, hydrotreated, light naphthenic               | ≥15 - ≤40 | CAS: 64742-53-6             |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ≥7 - ≤13  | CAS: 72623-87-1             |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated         | ≥1 - ≤5   | CAS: 163149-28-8            |
| Dec-1-ene, homopolymer, hydrogenated                                 | ≥1 - ≤5   | CAS: 68037-01-4             |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ≥1 - ≤5   | CAS: 72623-86-0             |
| Distillates (petroleum), hydrotreated light                          | ≥1 - ≤5   | CAS: 64742-47-8             |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts        | ≥1 - ≤5   | CAS: 68649-42-3             |

## Section 3. Composition/information on ingredients

|                                                     |           |                  |
|-----------------------------------------------------|-----------|------------------|
| C9-C15 Cycloalkanes                                 | ≥1 - ≤5   | CAS: 64742-47-8  |
| Asphalt (petroleum)                                 | ≥0.1 - ≤1 | CAS: 8052-42-4   |
| Residues (petroleum), vacuum                        | ≥0.1 - ≤1 | CAS: 64741-56-6  |
| bis(nonylphenyl)amine                               | ≥0.1 - ≤1 | CAS: 36878-20-3  |
| zinc bis(O,O-diisooctyl) bis(dithiophosphate)       | ≥0.1 - ≤1 | CAS: 28629-66-5  |
| Long chain alkyl amine thiophosphate (ACC # 251617) | ≥0.1 - ≤1 | CAS: 141904-03-2 |

Any concentration shown as a range is to protect confidentiality or is due to process 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.
- 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 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. 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.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 4. First aid measures

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- 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".

## Section 6. Accidental release measures

**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). Water polluting material. May be harmful to the environment if released in large quantities.

### 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Store locked up. 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.

**Bulk Storage Conditions:** Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

## Section 8. Exposure controls/personal protection

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

## Section 8. Exposure controls/personal protection

Distillates (petroleum), solvent-refined heavy paraffinic

**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.

**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.

**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)**

TWA: 5.

**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)**

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

**ACGIH TLV (United States)**

Inhalable Fraction: 5 mg/m<sup>3</sup>. Form: Aerosol..

Residual oils (petroleum,) solvent-refined

Distillates (petroleum), hydrotreated light paraffinic

Distillates, petroleum, hydrotreated, light naphthenic

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

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

## Section 8. Exposure controls/personal protection

Dec-1-ene, homopolymer, hydrogenated  
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

None.

**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)**

**[Kerosene] A3.** Absorbed through skin.

TWA 8 hours: 200 mg/m<sup>3</sup> (as total hydrocarbon vapor).

None.

**ACGIH TLV (United States)**

TWA 8 hours: 400 ppm. Form:

Methylcyclohexane.

**ACGIH TLV (United States)**

TWA 8 hours: 0.5 mg/m<sup>3</sup>.

**NIOSH REL (United States, 10/2020)**

**[ASPHALT FUMES] NIA.**

CEIL 15 minutes: 5 mg/m<sup>3</sup>. Form: Fume.

None.

None.

None.

None.

Distillates (petroleum), hydrotreated light

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts  
C9-C15 Cycloalkanes

Asphalt (petroleum)

Residues (petroleum), vacuum  
bis(nonylphenyl)amine  
zinc bis(O,O-diisooctyl) bis(dithiophosphate)  
Long chain alkyl amine thiophosphate (ACC # 251617)

### Biological exposure indices

No exposure indices known.

### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### 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, vapor controls, 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 should 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 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

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

### Appearance

- Physical state** : Liquid.
- Color** : Amber to dark amber
- Odor** : Petroleum.
- pH** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: >177°C (>350.6°F) [Pensky-Martens]
- Evaporation rate** : <1 (n-butyl acetate. = 1)
- Lower and upper explosive (flammable) limits** : Lower: 1%  
Upper: 7%
- Vapor pressure** : <0.013 kPa (<0.1 mm Hg)
- Relative vapor density** : >1 [Air = 1]
- Relative density** : 0.89
- Density lbs/gal** : Estimated 7.42 lbs/gal
- Density gm/cm<sup>3</sup>** : Not available.
- Gravity, °API** : Estimated 27 @ 60 F
- Solubility(ies)** :

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |

- Auto-ignition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not applicable.  
Kinematic (40°C (104°F)): 68 mm<sup>2</sup>/s (68 cSt)
- Viscosity SUS** : Estimated 315 SUS @104 F
- Flow time (ISO 2431)** : Not available.
- Particle characteristics**
- Median particle size** : Not applicable.

## Section 10. Stability and reactivity

|                                           |                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | : The product is stable.                                                                               |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : No specific data.                                                                                    |
| <b>Incompatible materials</b>             | : No specific data.                                                                                    |
| <b>Hazardous decomposition products</b>   | : 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 - Dermal - LD50**

>5000 mg/kg

EU

**Rat - Oral - LD50**

>5000 mg/kg

EU

Distillates (petroleum), hydrotreated heavy naphthenic

**Rat - Oral - LD50**

>5000 mg/kg

**Rat - Oral - LD50**

>5000 mg/kg

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**Rabbit - Dermal - LD50**

>5000 mg/kg

**Rat - Oral - LD50**

>5000 mg/kg

Distillates (petroleum), solvent-dewaxed light paraffinic

**Rabbit - Dermal - LD50**

>5000 mg/kg

**Rat - Oral - LD50**

>5000 mg/kg

Distillates (petroleum), solvent-refined light paraffinic

**Rat - Oral - LD50**

5000 mg/kg

**Rabbit - Dermal - LD50**

2000 mg/kg

Distillates (petroleum), solvent-refined heavy paraffinic

**Rat - Oral - LD50**

5000 mg/kg

**Rabbit - Dermal - LD50**

2000 mg/kg

Residual oils (petroleum,) solvent-refined

**Rat - Oral - LD50**

>5000 mg/kg

**Rabbit - Dermal - LD50**

>2000 mg/kg

Distillates (petroleum), hydrotreated light paraffinic

**Rat - Oral - LD50**

5000 mg/kg

**Rabbit - Dermal - LD50**

2000 mg/kg

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

3900 mg/m<sup>3</sup> [4 hours]

Toxic effects: Behavioral - Tremor Lung, Thorax, or Respiration - Dyspnea Kidney, Ureter, and Bladder - Urine volume increased

**Rat - Oral - LD50**

Distillates, petroleum, hydrotreated, light

## Section 11. Toxicological information

|                                                              |                                                                                                                                                                                                                             |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| naphthenic                                                   | >5000 mg/kg<br><u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)                                                                                                                                   |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated | <b>Rat - Male, Female - Oral - LD50</b><br>>5000 mg/kg<br>EU<br><b>Rat - Male, Female - Dermal - LD50</b><br>2000 mg/kg<br>EU<br><b>Rat - Male, Female - Inhalation - LC50 Dusts and mists</b><br>1.17 mg/l [4 hours]<br>EU |
| Dec-1-ene, homopolymer, hydrogenated                         | <b>Rabbit - Dermal - LD50</b><br>2000 mg/kg<br><b>Rat - Oral - LD50</b><br>>5000 mg/kg<br>EU                                                                                                                                |
| Distillates (petroleum), hydrotreated light                  | <b>Rabbit - Dermal - LD50</b><br>2000 mg/kg<br><b>Rat - Oral - LD50</b><br>>5000 mg/kg                                                                                                                                      |
| Asphalt (petroleum)                                          | <b>Rabbit - Dermal - LD50</b><br>>2000 mg/kg<br><b>Rat - Oral - LD50</b><br>>5000 mg/kg<br><u>Toxic effects:</u> Gastrointestinal - Hypermotility, diarrhea                                                                 |

### Conclusion/Summary [Product] :

#### Ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy naphthenic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), solvent-dewaxed light paraffinic

#### Conclusion/Summary

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

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Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma

## Section 11. Toxicological information

Distillates (petroleum), solvent-refined light paraffinic

formation and lipid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Distillates (petroleum), solvent-refined heavy paraffinic

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipid granuloma formation and lipid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Residual oils (petroleum,) solvent-refined

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipid granuloma formation and lipid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

Distillates (petroleum), hydrotreated light paraffinic

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipid granuloma formation and lipid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Distillates, petroleum, hydrotreated, light naphthenic

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipid granuloma formation and lipid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

INHALATION (LC50) Acute: 9.6 mg/L (Female Rat).

INHALATION (LC50) Acute: 10.5 mg/L (Male Rat).

DRAIZE EYE Acute: Non-irritating (Rabbit).

DRAIZE DERMAL Acute: Mild skin irritant (Rabbit).

BUEHLER DERMAL Acute: Non-sensitizing (Guinea Pig).

28-Day DERMAL Sub-Chronic: Mild to moderate skin irritant (Rabbit & Rat).

Dec-1-ene, homopolymer, hydrogenated

A life-time dermal application of severely hydrotreated light naphthenic oils produced skin masses on mice which correlated with the skin irritation response levels of the test animals. Additional studies attribute these masses to a weak promotional activity. These studies indicate that light naphthenic oils are not mutagenic, tumor initiators nor complete chemical carcinogens. These materials have not been determined to be carcinogenic by IARC, NTP or OSHA.

Practically non-irritating to eyes. Practically non-irritating to the

## Section 11. Toxicological information

Asphalt (petroleum)

Residues (petroleum), vacuum

skin.

Asphalt fumes have been associated with eye, skin and respiratory tract irritation.

Oils similar to this material have been shown to cause adverse effects in the liver and kidneys of laboratory rodents, and an increase in the incidence of fetal resorptions in pregnant laboratory rodents following prolonged and repeated exposure. Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The International Agency for Research on Cancer (IARC) has concluded that this category of untreated and mildly-treated oils are carcinogenic to humans.(Group 1).

### Skin corrosion/irritation

#### Product/ingredient name

Distillates, petroleum, hydrotreated, light naphthenic

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

zinc bis(O,O-diisooctyl) bis(dithiophosphate)

Long chain alkyl amine thiophosphate (ACC # 251617)

#### Conclusion/Summary [Product] :

#### Ingredient name

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

#### Result

##### **Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 0.5 Ml

##### **Rabbit - Skin - Edema**

EU

Duration of treatment/exposure: 4 hours

Amount/concentration applied: 0.5ml

Observation period: 7 days

Irritation score: 0.7

Fully reversible in 7 days or less

##### **Rabbit - Skin - Edema**

EU

Duration of treatment/exposure: 4 hours

Amount/concentration applied: 0.5 ml

Observation period: 72 hours

Irritation score: 1

Not fully reversible within 21 days or more

##### **Mammal - species unspecified - Skin - Moderate irritant**

#### Conclusion/Summary

This product can cause mild skin irritation and inflammation.

### Serious eye damage/eye irritation

#### Product/ingredient name

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

zinc bis(O,O-diisooctyl) bis(dithiophosphate)

Long chain alkyl amine thiophosphate (ACC # 251617)

#### Result

##### **Rabbit - Eyes - Redness of the conjunctivae**

EU

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 0.5 ml

Observation period: 72 hours

Irritation score: 1

Fully reversible in 7 days or less

##### **Rabbit - Eyes - Irritant**

EU

Observation period: 21 days

Not reversible

##### **Mammal - species unspecified - Eyes - Moderate irritant**

#### Conclusion/Summary [Product] :

## Section 11. Toxicological information

### Ingredient name

1-Dodecene, polymer with 1-decene and  
1-octene, hydrogenated

### Conclusion/Summary

Practically non-irritating to eyes.

### Respiratory corrosion/irritation

Not available.

### Conclusion/Summary [Product]

: No additional information.

### Respiratory or skin sensitization

#### Product/ingredient name

1-Dodecene, polymer with 1-decene and  
1-octene, hydrogenated

zinc bis(O,O-diisooctyl) bis(dithiophosphate)

Long chain alkyl amine thiophosphate (ACC  
# 251617)

#### Result

##### Guinea pig - skin

EU

Result: Not sensitizing

##### Guinea pig - skin

EU

Result: Not sensitizing

##### Mammal - species unspecified - skin

Result: Sensitizing

### Skin

### Conclusion/Summary [Product]

:

#### Ingredient name

1-Dodecene, polymer with 1-decene and  
1-octene, hydrogenated

### Conclusion/Summary

Non-sensitizer to skin.

### Respiratory

### Conclusion/Summary [Product]

: No additional information.

### Germ cell mutagenicity

#### Product/ingredient name

1-Dodecene, polymer with 1-decene and  
1-octene, hydrogenated

zinc bis(O,O-diisooctyl) bis(dithiophosphate)

#### Result

##### In vitro - Bacteria

EU

5000 ug/plate [3] [48 hours]

Result: Negative

##### In vivo - Mammalian-Animal - Intraperitoneal

EU

5000 mg/kg

Result: Negative

##### In vitro - Bacteria

EU

48 hours

Result: Negative

##### In vivo - Mammalian-Animal - Somatic - Intraperitoneal

EU

6 mg/kg [72 hours]

Result: Negative

### Conclusion/Summary [Product]

:

#### Ingredient name

1-Dodecene, polymer with 1-decene and  
1-octene, hydrogenated

### Conclusion/Summary

No mutagenic effect.

## Section 11. Toxicological information

### Carcinogenicity

Not available.

### Conclusion/Summary [Product] :

#### Ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic  
Distillates (petroleum), hydrotreated light paraffinic

#### Conclusion/Summary

In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.  
In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

### Classification

| Product/ingredient name                                   | OSHA  | IARC | NTP |
|-----------------------------------------------------------|-------|------|-----|
| Distillates (petroleum), solvent-refined heavy paraffinic | -     | 4    | -   |
| Distillates (petroleum), hydrotreated light paraffinic    | None. | -    | -   |
| Asphalt (petroleum)                                       | -     | 2B   | -   |
| Residues (petroleum), vacuum                              | -     | 2B   | -   |

### Reproductive toxicity

#### Product/ingredient name

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

#### Result

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

EU [One-Generation Reproduction Toxicity Study]  
1000 mg/kg

Effects: No effect level.

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

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

EU

30 mg/kg [7 days per week] [14 days]

Effects: No effect level.

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

zinc bis(O,O-diisooctyl) bis(dithiophosphate)

### Conclusion/Summary [Product] :

#### Ingredient name

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

#### Conclusion/Summary

No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

#### Product/ingredient name

Distillates (petroleum), hydrotreated light

#### Result

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
(Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

#### Product/ingredient name

#### Result

## Section 11. Toxicological information

|                                                              |                                |
|--------------------------------------------------------------|--------------------------------|
| Distillates (petroleum), solvent-dewaxed light paraffinic    | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-refined light paraffinic    | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light paraffinic       | ASPIRATION HAZARD - Category 1 |
| Distillates, petroleum, hydrotreated, light naphthenic       | ASPIRATION HAZARD - Category 1 |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light                  | ASPIRATION HAZARD - Category 1 |
| C9-C15 Cycloalkanes                                          | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Routes of entry anticipated: Dermal.

### Potential acute health effects

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Eye contact</b>  | : No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : May cause an allergic skin reaction.              |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |

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

|                     |                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : No specific data.                                                                                                                                  |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations                          |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations                          |

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

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

### Potential chronic health effects

| <b>Product/ingredient name</b>                | <b>Result</b>                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------|
| zinc bis(O,O-diisooctyl) bis(dithiophosphate) | <b>Chronic - Rat - Male, Female - Oral - NOAEL</b><br>EU<br>125 mg/kg |

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

## Section 11. Toxicological information

### Ingredient name

Distillates (petroleum), hydrotreated light

Asphalt (petroleum)

### Conclusion/Summary

The most common effects observed in repeated dose animal studies with mineral spirits are kidney changes that are consistent with an alpha 2u-globulin- mediated process that is not regarded as relevant to humans. Certain studies have reported effects in the liver as well as hematological or urine chemistry changes. Abuse of similar materials has been associated with irregular heart rhythms and cardiac arrest. In certain repeated dose animal studies have changes were reported in behavior, neurochemistry and sensory evoked potentials which may be irreversible. Repeated exposure to elevated concentrations of hydrocarbon solvents can produce a variety of transient CNS effects (e.g., dizziness, headache, narcosis, etc).

Repeated or prolonged contact with asphalt at ambient temperatures can result in skin irritation. Long-term exposure can cause dermatitis, acne, photosensitization and, more rarely, pigmentation of the skin.

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>General</b>               | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| <b>Carcinogenicity</b>       | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.              |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.                                                   |
| <b>Reproductive toxicity</b> | : Suspected of damaging fertility or the unborn child.                                                |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.                                                   |
| <b>Fertility effects</b>     | : Suspected of damaging fertility.                                                                    |

### 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) |
|--------------------------------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Mystik Bar and Chain Lubricant                               | 22798.2      | 7182.5         | N/A                      | N/A                        | N/A                                 |
| Distillates (petroleum), solvent-refined light paraffinic    | 5000         | 2000           | N/A                      | N/A                        | N/A                                 |
| Distillates (petroleum), solvent-refined heavy paraffinic    | 5000         | N/A            | N/A                      | N/A                        | N/A                                 |
| Residual oils (petroleum,) solvent-refined                   | N/A          | 2500           | N/A                      | N/A                        | N/A                                 |
| Distillates (petroleum), hydrotreated light paraffinic       | 5000         | 2000           | N/A                      | N/A                        | N/A                                 |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated | N/A          | 2000           | N/A                      | N/A                        | N/A                                 |
| Dec-1-ene, homopolymer, hydrogenated                         | N/A          | 2000           | N/A                      | N/A                        | N/A                                 |
| Distillates (petroleum), hydrotreated light                  | N/A          | 2000           | N/A                      | N/A                        | N/A                                 |
| Asphalt (petroleum)                                          | N/A          | 2500           | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

Distillates (petroleum), hydrotreated heavy naphthenic

#### Result

##### Acute - LC50 - Fresh water

OECD 203

Fish - *Pimephales promelas*  
>100 mg/l [96 hours]

##### Acute - EC50 - Fresh water

OECD 202

Daphnia - *Daphnia magna*  
>10000 mg/l [48 hours]

## Section 12. Ecological information

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

### Acute - NOEL - Fresh water

OECD 201

Algae - Algae - *Pseudokirchneriella subcapitata*  
>100 mg/l [72 hours]

### Acute - LC50 - Fresh water

EU

Fish - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)

Age: 10 weeks

>1000 mg/l [96 hours]

### Acute - EC50 - Fresh water

Crustaceans - *Daphnia magna*

1000 mg/l [48 hours]

### Chronic - NOEL - Fresh water

EU

Crustaceans - *Daphnia magna*

125 mg/l [21 days]

### Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*

Size: 35 to 75 mm

2900 µg/l [96 hours]

Effect: Mortality

### Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*

Size: 35 to 75 mm

2600 µg/l [4 days]

Effect: Mortality

### Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

Size: 35 to 75 mm

2200 µg/l [4 days]

Effect: Mortality

Distillates (petroleum), hydrotreated light

zinc bis(O,O-diisooctyl) bis(dithiophosphate)

### Acute - LC50 - Fresh water

EU

Fish - Trout

3.8 mg/l [96 hours]

### Acute - NOEL - Fresh water

EU

Daphnia - Daphnia

510 mg/l [48 hours]

### Chronic - NOEC - Fresh water

EU

Daphnia - Daphnia

0.4 mg/l [21 days]

### Acute - EC50 - Fresh water

EU

Algae - Algae

240 mg/l [72 hours]

### Conclusion/Summary [Product]

: 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated: No known significant effects or critical hazards.

### Ingredient name

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

### Conclusion/Summary

No known significant effects or critical hazards.

### Persistence and degradability

Not available.

## Section 12. Ecological information

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

| Product/ingredient name                                   | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------------------------------------|-------------------|------------|------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic    | -                 | -          | Inherent         |
| Distillates (petroleum), solvent-refined heavy paraffinic | -                 | -          | Inherent         |
| Dec-1-ene, homopolymer, hydrogenated                      | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name                                      | LogP <sub>ow</sub> | BCF                                                                       | Potential |
|--------------------------------------------------------------|--------------------|---------------------------------------------------------------------------|-----------|
| Distillates (petroleum), hydrotreated heavy naphthenic       | >6                 | -                                                                         | High      |
| Distillates (petroleum), solvent-refined heavy paraffinic    | 3.9 to 6           | -                                                                         | High      |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated | >6.5               | -                                                                         | High      |
| Dec-1-ene, homopolymer, hydrogenated                         | >6.5               | -                                                                         | High      |
| bis(nonylphenyl)amine                                        | 3.64 to 7.02       | 1730 [METI guideline (concentration test on chemical substances in fish)] | High      |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate)               | 2.87               | -                                                                         | Low       |

### 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 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.

**RCRA classification** : D018

## Section 14. Transport information

|                            | DOT<br>Classification | TDG<br>Classification | Mexico<br>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.            |

**Oil:** The product(s) represented by this SDS is (are) regulated as “oil” under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

### Additional information

**DOT Classification** : **Reportable quantity** 26536.9 lbs / 12047.8 kg [3576 gal / 13536.8 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**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; benzotriazole; methyl-1H-benzotriazole; (tetrapropenyl)succinic acid; dibutyl phosphonate; methyl-1H-benzotriazole

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

**TSCA 5(a)2 proposed significant new use rules:** Nonylphenol, ethoxylated

**TSCA 5(e) substance consent order:** cyclohexane

**TSCA 8(a) PAIR:** Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; 2,6-di-tert-butylphenol; phenol, (tetrapropenyl) derivatives; ethylbenzene; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; toluene; nonane; naphthalene; diphenylamine; 2-Butenedioic acid (E)-, di-C8-18-alkyl esters; 2-Butenedioic acid (E)-, di-C8-18-alkyl esters; 3-(decyloxy)tetrahydrothiophene 1,1-dioxide; Nonylphenol, ethoxylated; N-1-naphthylaniline; Phosphoric acid, 2-ethylhexyl ester; bis(2-ethylhexyl) hydrogen phosphate; Siloxanes and Silicones, di-Me; xylene; ethylbenzene; cumene; cyclohexane; p-dodecylphenol; p-dodecylphenol; citronellal; propylene oxide

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

**TSCA 8(c) calls for record of SAR:** trimethyl phosphate

**TSCA 8(d) H and S data reporting:** 3-(decyloxy)tetrahydrothiophene 1,1-dioxide

## Section 15. Regulatory information

**Clean Water Act (CWA) 307:** Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; tris(dipentylthiocarbamate-S,S')antimony; zinc bis(O,O-diisooctyl) bis(dithiophosphate); zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate); zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis(phosphorodithioate); ethylbenzene; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; toluene; benzene; naphthalene; zinc oxide; Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts; ethylbenzene; lead powder; Nickel; Cadmium (Non-pyrophoric); arsenic; phenol; benzene

**Clean Water Act (CWA) 311:** ethylbenzene; fumaric acid; toluene; benzene; naphthalene; methyl methacrylate; ethylenediamine; hydrogen sulphide; xylene; ethylbenzene; Phosphoric acid; cyclohexane; vinyl acetate; maleic anhydride; aniline; phenol; ammonia, anhydrous; Formaldehyde, solution; Hydrogen chloride; Hydrogen chloride; propylene oxide; benzene

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

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

Not applicable.

**Clean Air Act Section 112** : Listed

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

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

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

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

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

### SARA 302/304

#### Composition/information on ingredients

| Name               | %    | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|--------------------|------|------|--------------|-----------|-------------|-----------|
|                    |      |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| ethylenediamine    | ≤0.1 | Yes. | 10000        | 1337.1    | 5000        | 668.5     |
| Hydrogen sulfide   | ≤0.1 | Yes. | 500          | -         | 100         | -         |
| Sulfur dioxide     | ≤0.1 | Yes. | 500          | -         | 500         | -         |
| vinyl acetate      | ≤0.1 | Yes. | 1000         | 129       | 5000        | 644.8     |
| aniline            | ≤0.1 | Yes. | 1000         | 117.6     | 5000        | 587.9     |
| ethylene oxide     | ≤0.1 | Yes. | 1000         | -         | 10          | -         |
| Phenol             | ≤0.1 | Yes. | 500 / 10000  | -         | 1000        | -         |
| Ammonia, anhydrous | ≤0.1 | Yes. | 500          | -         | 100         | -         |
| formaldehyde       | ≤0.1 | Yes. | 500          | 73.9      | 100         | 14.8      |
| hydrogen chloride  | ≤0.1 | Yes. | 500          | -         | 5000        | -         |
| hydrogen chloride  | ≤0.1 | Yes. | 500          | -         | 5000        | -         |
| propylene oxide    | ≤0.1 | Yes. | 10000        | 1444.3    | 100         | 14.4      |

**SARA 304 RQ** : 10151253.7 lbs / 4608669.2 kg [1367956.8 gal / 5178280 L]

### SARA 311/312

**Classification** : SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2

#### Composition/information on ingredients

## Section 15. Regulatory information

| Name                                                          | %         | Classification                                                                                                                                                                                                                                               |
|---------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distillates (petroleum), solvent-dewaxed light paraffinic     | ≥45 - ≤70 | ASPIRATION HAZARD - Category 1                                                                                                                                                                                                                               |
| Distillates (petroleum), solvent-refined light paraffinic     | ≥45 - ≤70 | ACUTE TOXICITY (dermal) - Category 4<br>ASPIRATION HAZARD - Category 1                                                                                                                                                                                       |
| Distillates (petroleum), hydrotreated light paraffinic        | ≥30 - ≤60 | ACUTE TOXICITY (dermal) - Category 4<br>ASPIRATION HAZARD - Category 1                                                                                                                                                                                       |
| Distillates, petroleum, hydrotreated, light naphthenic        | ≥15 - ≤40 | ASPIRATION HAZARD - Category 1                                                                                                                                                                                                                               |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated  | ≥1 - ≤5   | ACUTE TOXICITY (dermal) - Category 4<br>ASPIRATION HAZARD - Category 1                                                                                                                                                                                       |
| Dec-1-ene, homopolymer, hydrogenated                          | ≥1 - ≤5   | ACUTE TOXICITY (dermal) - Category 4                                                                                                                                                                                                                         |
| Distillates (petroleum), hydrotreated light                   | ≥1 - ≤5   | FLAMMABLE LIQUIDS - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2B<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1 |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | ≥1 - ≤5   | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A                                                                                                                                                                                                 |
| C9-C15 Cycloalkanes                                           | ≥1 - ≤5   | FLAMMABLE LIQUIDS - Category 2<br>ASPIRATION HAZARD - Category 1                                                                                                                                                                                             |
| Asphalt (petroleum)                                           | ≥0.1 - ≤1 | CARCINOGENICITY - Category 2                                                                                                                                                                                                                                 |
| Residues (petroleum), vacuum                                  | ≥0.1 - ≤1 | CARCINOGENICITY - Category 2                                                                                                                                                                                                                                 |
| bis(nonylphenyl)amine                                         | ≥0.1 - ≤1 | TOXIC TO REPRODUCTION - Category 2                                                                                                                                                                                                                           |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate)                | ≥0.1 - ≤1 | SKIN IRRITATION - Category 2<br>SERIOUS EYE DAMAGE - Category 1<br>TOXIC TO REPRODUCTION - Category 2                                                                                                                                                        |
| Long chain alkyl amine thiophosphate (ACC # 251617)           | ≥0.1 - ≤1 | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1A                                                                                                                                                             |

### SARA 313

|                                        | Product name                                                  | CAS number | %       |
|----------------------------------------|---------------------------------------------------------------|------------|---------|
| <b>Form R - Reporting requirements</b> | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 68649-42-3 | ≥1 - ≤5 |
|                                        | lead powder                                                   | 7439-92-1  | ≤0.1    |
| <b>Supplier notification</b>           | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 68649-42-3 | ≥1 - ≤5 |
|                                        | lead powder                                                   | 7439-92-1  | ≤0.1    |

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

: The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED LIGHT PARAFFINIC; OIL MIST, MINERAL; OIL MIST, MINERAL; MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED LIGHT PARAFFINIC; OIL MIST, MINERAL; MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC; OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; Polymer

#### New York

: None of the components are listed.

#### New Jersey

: The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED); Polymer

#### Pennsylvania

: The following components are listed: Polymer

#### California Prop. 65

## Section 15. Regulatory information

**⚠ WARNING:** This product can expose you to chemicals including Carbon black, which is known to the State of California to cause cancer, and Di-isodecyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name        | Concentration | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|------------------------|---------------|--------|--------------|---------------------------|---------------------------------|
| Di-isodecyl phthalate  | <1            | No.    | Yes.         | -                         | Yes.                            |
| Carbon black           | <0.1          | Yes.   | No.          | -                         | -                               |
| Ethylbenzene           | <0.1          | Yes.   | No.          | Yes.                      | -                               |
| Toluene                | <0.1          | No.    | Yes.         | -                         | Yes.                            |
| Benzene                | <0.1          | Yes.   | Yes.         | Yes.                      | Yes.                            |
| Ethylene Glycol        | <0.1          | No.    | Yes.         | -                         | Yes.                            |
| Naphthalene            | <0.1          | Yes.   | No.          | Yes.                      | -                               |
| Ethylbenzene           | <0.001        | Yes.   | No.          | Yes.                      | -                               |
| cumene                 | <0.001        | Yes.   | No.          | -                         | -                               |
| sulfur dioxide         | <0.001        | No.    | Yes.         | -                         | Yes.                            |
| Lead                   | <0.001        | Yes.   | Yes.         | Yes.                      | Yes.                            |
| Ethyl acrylate         | <0.001        | Yes.   | No.          | -                         | -                               |
| 2-ethylhexyl acrylate  | <0.001        | Yes.   | No.          | -                         | -                               |
| 1,4-Dioxane            | <0.001        | Yes.   | No.          | Yes.                      | -                               |
| vinyl acetate          | <0.001        | Yes.   | No.          | -                         | -                               |
| Aniline                | <0.0001       | Yes.   | No.          | Yes.                      | -                               |
| 1-Naphthylamine        | <0.0001       | Yes.   | No.          | -                         | -                               |
| Nickel                 | <0.0001       | Yes.   | No.          | -                         | -                               |
| cadmium                | <0.0001       | Yes.   | Yes.         | Yes.                      | Yes.                            |
| Cobalt metal powder    | <0.0001       | Yes.   | No.          | -                         | -                               |
| Ethylene oxide         | <0.0001       | Yes.   | Yes.         | Yes.                      | Yes.                            |
| Arsenic                | <0.0001       | Yes.   | No.          | Yes.                      | -                               |
| Methanol               | trace         | No.    | Yes.         | -                         | Yes.                            |
| Formaldehyde           | trace         | Yes.   | No.          | Yes.                      | -                               |
| 2-Naphthylamine        | trace         | Yes.   | No.          | Yes.                      | -                               |
| Trimethyl phosphate    | trace         | Yes.   | No.          | Yes.                      | -                               |
| Methyl isobutyl ketone | trace         | Yes.   | Yes.         | -                         | -                               |
| Propylene oxide        | trace         | Yes.   | No.          | -                         | -                               |
| Benzene                | trace         | Yes.   | Yes.         | Yes.                      | Yes.                            |

### 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

|                                |                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Australia</b>               | : At least one component is not listed.                                                                                                        |
| <b>Canada</b>                  | : All components are listed or exempted.                                                                                                       |
| <b>China</b>                   | : At least one component is not listed.                                                                                                        |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory:</b> Not determined.                                                                                         |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL):</b> At least one component is not listed.<br><b>Japan inventory (ISHL):</b> At least one component is not listed. |

## Section 15. Regulatory information

|                          |                                          |
|--------------------------|------------------------------------------|
| <b>New Zealand</b>       | : At least one component is not listed.  |
| <b>Philippines</b>       | : At least one component is not listed.  |
| <b>Republic of Korea</b> | : At least one component is not listed.  |
| <b>Taiwan</b>            | : At least one component is not listed.  |
| <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

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



### Procedure used to derive the classification

| Classification                          | Justification      |
|-----------------------------------------|--------------------|
| SKIN SENSITIZATION - Category 1         | Calculation method |
| CARCINOGENICITY - Category 2            | Calculation method |
| TOXIC TO REPRODUCTION - Category 2      | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 3 | Calculation method |

### History

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

|                   |                  |
|-------------------|------------------|
| <b>References</b> | : Not available. |
|-------------------|------------------|

Indicates information that has changed from previously issued version.

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## Section 16. Other information

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