

# **SAFETY DATA SHEET**

Prime Guard All Purpose Grease

| Section 1. Identifi  | cation  |  |
|--|---|--|
| GHS product identifier                                     | : Prime Guard All Purpose Grease  |  |
| Synonyms   | Grease; CITGO <sup>®</sup> Material Code: 665408341/ Prime Guard Material Code: GL14  |  |
| Code   | : 665408341   |  |
| MSDS #   | : 665408341   |  |
| Supplier's details   | : CITGO Petroleum Corporation<br>P.O. Box 4689<br>Houston, TX 77210<br>sdsvend@citgo.com  |  |
| Emergency telephone<br>number (with hours of<br>operation) | : Technical Contact: (800) 248-4684<br>Medical Emergency: (832) 486-4700<br>CHEMTREC Emergency: (800) 424-9300<br>(United States Only)  |  |
| Section 2. Hazard  | s 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                 | : AQUATIC HAZARD (LONG-TERM) - Category 4   |  |
| GHS label elements   |   |  |
| Signal word  | : Warning   |  |
| Hazard statements  | : May cause long lasting harmful effects to aquatic life.<br>Injection of pressurized hydrocarbons can cause severe permanent tissue damage.<br>Initial symptoms may be minor.  |  |
| Precautionary statements                                   |   |  |
| General  | : Avoid contact with eyes, skin and clothing. Thoroughly wash exposed areas and<br>clothing with soap and water. IF IN EYES: Rinse cautiously with water for several<br>minutes. IF SWALLOWED: Do not induce vomiting. If you feel unwell, seek medical<br>attention and show the label when possible. Keep out of reach of children. |  |
| Prevention   | : Avoid release to the environment.   |  |
| Response   | : Notapplicable.  |  |
| Storage  | <ul> <li>Store in a dry place and/or in closed container. Store in accordance with all local,<br/>regional, national and international regulations.</li> </ul>  |  |
| Disposal   | <ul> <li>Dispose of contents and container in accordance with all local, regional, national and<br/>international regulations.</li> </ul>   |  |
| Hazards not otherwise<br>classified                        | : Injection of petroleum hydrocarbons requires immediate medical attention.   |  |

## Section 3. Composition/information on ingredients

| Substance/mixture             | : Mixture  |
|-------------------------------|--|
| Other means of identification | : Grease ; CITGO <sup>®</sup> Material Code: 665408341 |

#### **CAS number/other identifiers**

**CAS number** : Not applicable.

## Section 3. Composition/information on ingredients

| Ingredient name   | %         | CAS number |
|---|-----------|------------|
| Distillates (petroleum), hydrotreated heavy naphthenic                  | ≥75 - ≤90 | 64742-52-5 |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | ≥25 - ≤50 | 68037-01-4 |
| Distillates (petroleum), hydrotreated heavy paraffinic                  | ≥25 - ≤50 | 64742-54-7 |
| Residual oils (petroleum), solvent-dewaxed                              | ≥10 - ≤25 | 64742-62-7 |
| Lithium, 12-hydroxyoctadecanoate sebacate complexes                     | ≤5        | 68815-49-6 |
| calcium carbonate   | <5        | 471-34-1   |
| molybdenum disulphide   | <5        | 1317-33-5  |
| Natural graphite  | ≤3        | 7782-42-5  |
| Distillates, petroleum, hydrotreated, light naphthenic                  | ≤3        | 64742-53-6 |

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 as hazardous to health or the environment and hence require reporting in this section.

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

#### Section 4. First aid measures

| Description of necess | ary first aid measures   |
|-----------------------|--|
| Eye contact           | <ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower<br/>eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10<br/>minutes. Get medical attention if irritation occurs.</li> </ul>   |
| Inhalation            | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If<br>not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial<br>respiration or oxygen by trained personnel. It may be dangerous to the person providing<br>aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects<br>persist or are severe. If unconscious, place in recovery position and get medical<br>attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,<br>tie, belt or waistband.                     |
| Skin contact          | <ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and<br/>shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean<br/>shoes thoroughly before reuse.</li> </ul>  |
| Ingestion             | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

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

| Potential acute health | <u>effects</u>   |
|------------------------|--|
| Eye contact            | : No known significant effects or critical hazards.  |
| Inhalation             | : No known significant effects or critical hazards.  |
| Skin contact           | <ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage.<br/>Initial symptoms may be minor.</li> </ul> |
| Ingestion              | : 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.  |

## Section 4. First aid measures

| Indication of immediate medical attention and special treatment needed. if necessary |  |  |
|--|--|--|
| Notes to physician   | In the event of injection in underlying tissue, immediate treatment should include<br>extensive incision, debridement and saline irrigation. Inadequate treatment can result in<br>ischemia and gangrene. Early symptoms may be minimal. |  |
| Specific treatments  | : Treat symptomatically and supportively.  |  |
| Protection of first-aiders   | No action shall be taken involving any personal risk or without suitable training. It may<br>be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  |  |

#### 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                 | : None known.   |
| Specific hazards arising from the chemical     | : This material may cause long lasting harmful effects to aquatic life. 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:<br>carbon dioxide<br>carbon monoxide<br>sulfur oxides<br>phosphorus oxides<br>metal oxide/oxides  |
| Special protective actions for fire-fighters   | Promptly isolate the scene by removing all persons from the vicinity of the incident if<br>there is a fire. No action shall be taken involving any personal risk or without suitable<br>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, protect                         | ctive equipment and emergency procedures  |  |
|---|---|--|
| For non-emergency<br>personnel                        | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Provide adequate ventilation.<br>Wear appropriate respirator when ventilation is inadequate. Put on appropriate<br>personal protective equipment. |  |
| For emergency responders                              | : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |  |
| Environmental precautions                             | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to<br>the environment if released in large quantities.   |  |
| Methods and materials for containment and cleaning up |   |  |

| Small spill : | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal |
|---------------|---|
|               | contractor.   |

## Section 6. Accidental release measures

| Large spill | : Move containers from spill area. Approach release from upwind. Prevent entry into    |
|-------------|--|
|             | sewers, water courses, basements or confined areas. Vacuum or sweep up material        |
|             | and place in a designated, labeled waste container. Dispose of via a licensed waste    |
|             | disposal contractor. Note: see Section 1 for emergency contact information and Section |
|             | 13 for waste disposal.   |

## Section 7. Handling and storage

| Precautions for safe handling                                      | 0  |  |
|--|----|--|
| Protective measures  | :  | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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,<br>including any<br>incompatibilities | :  | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|  |    | Bulk Storage Conditions: Do not apply heat or flame to stockpiled material. Rotate stock to reduce the potential for hot spots. Do not store with oxidizers. Minimize dust creation by keeping material moist and/or covered.  |
| Section 8 Exposure   | rn | controls/porsonal protoction   |

#### Section 8. Exposure controls/personal protection

| Control parameters                                     |  |
|--|--|
| Occupational exposure limits                           |  |
| Distillates (petroleum), hydrotreated heavy naphthenic | ACGIH TLV (United States, 3/2018).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable<br>fraction<br>NIOSH REL (United States, 10/2016).<br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist<br>OSHA PEL (United States, 5/2018).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. |
| Distillates (petroleum), hydrotreated heavy paraffinic | ACGIH TLV (United States, 3/2018).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable<br>fraction<br>NIOSH REL (United States, 10/2016).<br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist<br>OSHA PEL (United States, 5/2018).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. |
| Residual oils (petroleum), solvent-dewaxed             | ACGIH TLV (United States, 6/2013).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable<br>fraction<br>NIOSH REL (United States, 4/2013).<br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist<br>OSHA PEL (United States, 2/2013).<br>TWA: 5 mg/m <sup>3</sup> 8 hours.  |
| Distillates, petroleum, hydrotreated, light naphthenic | ACGIH TLV (United States, 3/2018).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable  |

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## Section 8. Exposure controls/personal protection

|                                  |  | fraction<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours.   |
|----------------------------------|--|---|
| Lithium, 12-hydroxyoctadec       | anoate sebacate complexes  | ACGIH TLV (United States).  |
| calcium carbonate                |  | TWA: 10 mg/m <sup>3</sup> 8 hours.<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable<br>fraction   |
| molybdenum disulphide            |  | TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total<br><b>ACGIH TLV (United States, 3/2018).</b><br>TWA: 10 mg/m <sup>3</sup> , (as Mo) 8 hours. Form:<br>Inhalable fraction<br>TWA: 3 mg/m <sup>3</sup> , (as Mo) 8 hours. Form:<br>Respirable fraction<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 15 mg/m <sup>3</sup> , (as Mo) 8 hours. Form:<br>Total dust  |
| Natural graphite                 |  | <ul> <li>ACGIH TLV (United States).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>ACGIH TLV (United States, 3/2015).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>NIOSH REL (United States, 10/2013).</li> <li>TWA: 2.5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction</li> <li>OSHA PEL (United States).</li> <li>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</li> <li>OSHA PEL Z3 (United States, 2/2013).</li> <li>TWA: 15 mppcf 8 hours.</li> </ul> |
| Appropriate engineering controls | : Good general ventilation should be s contaminants.   | ufficient to control worker exposure to airborne  |
| Environmental exposure controls  | they comply with the requirements of   | rocess equipment should be checked to ensure<br>of environmental protection legislation. In some<br>neering modifications to the process equipment will<br>o acceptable levels.   |
| Individual protection measu      | ires   |   |
| Hygiene measures                 | eating, smoking and using the lavat<br>Appropriate techniques should be u  | proughly after handling chemical products, before<br>ory and at the end of the working period.<br>sed to remove potentially contaminated clothing.<br>reusing. Ensure that eyewash stations and safety<br>n location.   |
| Eye/face protection              | industrial settings. If contact is poss<br>the assessment indicates a higher of<br>an approved standard should be us | shields are recommended as minimum protection in<br>ible, the following protection should be worn, unless<br>degree of protection: Safety eyewear complying with<br>ed when a risk assessment indicates this is<br>id splashes, mists, gases or dusts. If inhalation<br>may be required instead.  |
| 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. |
| Body protection        | Personal protective equipment for the body should be selected based on the task being<br>performed and the risks involved and should be approved by a specialist before<br>handling this product.   |
| Other skin protection  | <ul> <li>Appropriate footwear and any additional skin protection measures should be selected<br/>based on the task being performed and the risks involved and should be approved by a<br/>specialist before handling this product.</li> </ul>   |
| Respiratory protection | : Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  |

## Section 9. Physical and chemical properties

| Appearance                                   |   |
|--|---|
| Physical state                               | : Solid. [Paste.]   |
| Color  | : Dark amber to black   |
| Odor   | : Petroleum.  |
| рН   | : Not available.  |
| Boiling point                                | : Notavailable.   |
| Flash point                                  | : Open cup: >150°C (>302°F) [Estimated]                           |
| Evaporation rate                             | : <1 (n-butyl acetate. = 1)                                       |
| Lower and upper explosive (flammable) limits | : Lower: 1%<br>Upper: 7%  |
| Vapor pressure                               | : <0.0013 kPa (<0.01 mm Hg) [room temperature]                    |
| Vapor density                                | : >10 [Air = 1]   |
| Relative density                             | : 0.97  |
| Density Ibs/gal                              | : Estimated 8.09 lbs/gal  |
| Density gm/cm <sup>3</sup>                   | : Notavailable.   |
| Gravity, °API                                | : Estimated 14 @ 60F  |
| Solubility                                   | : Insoluble in the following materials: cold water and hot water. |
| Flow time (ISO 2431)                         | : Notavailable.   |
| NLGI Grade                                   | : 2   |

## Section 10. Stability and reactivity

|                                    | -                          | -   |                       |                         |        |
|------------------------------------|----------------------------|---|-----------------------|-------------------------|--------|
| Reactivity                         |                            | ed to be Explosive, Self-Re<br>GHS Definition(s). | eactive, Self-Heating | or an Organic Peroxide  | e      |
| Chemical stability                 | : The product              | t isstable.                                       |                       |                         |        |
| Possibility of hazardous reactions | : Under norm               | al conditions of storage a                        | nd use, hazardous re  | actions will not occur. |        |
| Conditions to avoid                | : No specific              | cdata.  |                       |                         |        |
| Incompatible materials             | : No specific              | data.   |                       |                         |        |
| Hazardous decomposition products   | Under norm:<br>not be proc | al conditions of storage and duced.               | nd use, hazardous de  | ecomposition products s | should |
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## Section 11. Toxicological information

#### Information on toxicological effects Acute toxicity

| Product/ingredient name        | Result                          | Species           | Dose                  | Exposure            |
|--------------------------------|---------------------------------|-------------------|-----------------------|---------------------|
| Distillates (petroleum),       | LD50 Oral                       | Rat               | >5000 mg/kg           | -                   |
| hydrotreated heavy             |                                 |                   |                       |                     |
| naphthenic                     |                                 |                   |                       |                     |
|                                | LD50 Oral                       | Rat               | >5000 mg/kg           | -                   |
| Dec-1-ene, homopolymer,        | LD50 Dermal                     | Rabbit            | >2000 mg/kg           | -                   |
| hydrogenated Dec-1-ene,        |                                 |                   |                       |                     |
| oligomers, hydrogenated        |                                 |                   |                       |                     |
|                                | LD50 Oral                       | Rat               | >5000 mg/kg           | -                   |
| Distillates (petroleum),       | LD50 Dermal                     | Rat               | >5000 mg/kg           | -                   |
| hydrotreated heavy paraffinic  |                                 |                   |                       |                     |
|                                | LD50 Oral                       | Rat               | >5000 mg/kg           | -                   |
| Distillates, petroleum,        | LD50 Oral                       | Rat               | >5000 mg/kg           | -                   |
| hydrotreated, light naphthenic |                                 |                   |                       |                     |
| calcium carbonate              | LD50 Oral                       | Rat               | 6450 mg/kg            | -                   |
| molybdenum disulphide          | LD Dermal                       | Rat               | >2 g/kg               | -                   |
|                                | LD Oral                         | Rat               | >2 g/kg               | -                   |
|                                | LD50 Oral                       | Rat               | >6000 mg/kg           | -                   |
|                                | LDLo Oral                       | Rat               | 6 g/kg                | -                   |
| Conclusion/Summary             | : Distillates (petroleum), hydr | otreated heavy    | naphthenic: Mineral   | oil mists derived   |
|                                | from highly refined oils are re | ported to have lo | w acute and sub-acu   | ite toxicities in   |
|                                | animals. Effects from single a  | and short-term re | peated exposures to   | high concentratio   |
|                                | of mineral oil mists well abov  | e applicable work | place exposure leve   | ls include lung     |
|                                | inflammatory reaction lineid    | aronulama forma   | tion and lingid phoun | aonia. In aquita ar |

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. **Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated**: Practically non-irritating to eyes. Practically non-irritating to the skin.

**Distillates (petroleum), hydrotreated 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, 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. Poly alpha olefins:

Potential mild skin irritant from repeated or prolonged exposures.

## **Distillates (petroleum), hydrotreated light naphthenic**: 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).

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.

**molybdenum disulphide**: In general, insoluble compounds of molybdenum, such as molybdenum disulfide, exhibit a low order of toxicity.

**Natural graphite**: Laboratory studies have associated graphite with mild pulmonary fibrotic reactions when administered to rats by intratracheal injection. Numerous epidemiological studies performed in the mining, milling and carbon electrode manufacturing industries have associated a form of pneumoconiosis with overexposure to both synthetic and natural graphite. These data are not expected to be relevant to

## Section 11. Toxicological information

graphic used in a grease or oil matrix.

#### Irritation/Corrosion

| Product/ingredient name                                   | Result                       | Species        | Score            | Exposure                   | Observation |
|---|------------------------------|----------------|------------------|----------------------------|-------------|
| Distillates, petroleum,<br>hydrotreated, light naphthenic | Skin - Moderate irritant     | Rabbit         | -                | 24 hours 0.5<br>Mililiters | -           |
| calcium carbonate   | Skin - Moderate irritant     | Rabbit         | -                | 24 hours 500<br>milligrams | -           |
|   | Eyes - Mild irritant         | Rabbit         | -                | -                          | -           |
|   | Respiratory - Irritant       | Rabbit         | -                | -                          | -           |
|   | : molybdenum disulphide      | •              |                  |                            |             |
|   | : molybdenum disulphide      |                | •                |                            |             |
|   | : molybdenum disulphide      | : May cause re | espiratory irrit | ation.                     |             |
| Sensitization   |                              |                |                  |                            |             |
| Not available.  |                              |                |                  |                            |             |
| Skin  | : No additional information. |                |                  |                            |             |
| Respiratory   | : No additional information. |                |                  |                            |             |
| <u>Mutagenicity</u>                                       |                              |                |                  |                            |             |
| Not available.  |                              |                |                  |                            |             |
| Conclusion/Summary  | : No additional information. |                |                  |                            |             |
| <u>Carcinogenicity</u>                                    |                              |                |                  |                            |             |
| Not available.  |                              |                |                  |                            |             |
| Conclusion/Summary  | : No additional information. |                |                  |                            |             |
| Reproductive toxicity                                     |                              |                |                  |                            |             |
| Not available.  |                              |                |                  |                            |             |
| Conclusion/Summary  | : No additional information  |                |                  |                            |             |
| Teratogenicity  |                              | •              |                  |                            |             |
| Not available.  |                              |                |                  |                            |             |
|   |                              |                |                  |                            |             |
| Conclusion/Summary  | : No additional information. |                |                  |                            |             |

#### Specific target organ toxicity (single exposure)

| Name                  |            | Route of<br>exposure | Target organs                   |
|-----------------------|------------|----------------------|---------------------------------|
| molybdenum disulphide | Category 3 | Not applicable.      | Respiratory tract<br>irritation |

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

| Name     |  | Result                         |
|----------|--|--------------------------------|
| Distilla | tes, petroleum, hydrotreated, light naphthenic | ASPIRATION HAZARD - Category 1 |

| Information on the likely routes of exposure | : Routes of | entry anticipated: Dermal.                          |                    |                       |      |  |
|--|-------------|---|--------------------|-----------------------|------|--|
| Potential acute health effec                 | <u>ts</u>   |   |                    |                       |      |  |
| Eye contact                                  | : No known  | n significant effects or critica                    | ıl hazards.        |                       |      |  |
| Inhalation                                   | : No known  | : No known significant effects or critical hazards. |                    |                       |      |  |
| Skin contact                                 |             | f pressurized hydrocarbons<br>nptoms may be minor.  | can cause severe p | ermanent tissue damag | e.   |  |
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## Section 11. Toxicological information

| Ingestion                      | : No known significant effects or critical hazards.           |
|--------------------------------|---|
| Symptoms related to the phy    | sical. 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 effect   | ts and also chronic effects from short and long term exposure |
| <u>Short term exposure</u>     |   |
| Potential immediate<br>effects | : Not available.  |
| Potential delayed effects      | : Notavailable.   |
| <u>Long term exposure</u>      |   |
| Potential immediate<br>effects | : Not available.  |
| Potential delayed effects      | : Notavailable.   |
| Potential chronic health eff   | ects  |
| Not available.                 |   |
| General                        | : No known significant effects or critical hazards.           |
| Carcinogenicity                | : No known significant effects or critical hazards.           |
| Mutagenicity                   | : No known significant effects or critical hazards.           |
| Teratogenicity                 | : No known significant effects or critical hazards.           |
| Developmental effects          | : No known significant effects or critical hazards.           |
| Fertility effects              | : No known significant effects or critical hazards.           |
|                                |   |

## Section 12. Ecological information

| Toxicity                |   |   |                     |  |  |
|-------------------------|---|---|---------------------|--|--|
| Product/ingredient name | Result  | Species   | Exposure            |  |  |
| calcium carbonate       | Acute LC50 >56000 ppm Fresh water<br>Chronic NOEC 61 mg/g Fresh water | Fish - Gambusia affinis - Adult<br>Fish - Oncorhynchus mykiss -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 96 hours<br>28 days |  |  |

**Conclusion/Summary** : Notavailable.

#### Persistence and degradability

| Conclusion/Summary                             | : Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene): This<br>product is unlikely to biodegrade at a significant rate. |            |                  |  |
|--|---|------------|------------------|--|
| Product/ingredient name                        | Aquatic half-life   | Photolysis | Biodegradability |  |
| Distillates (petroleum),<br>hydrotreated heavy | -   | -          | Inherent         |  |

#### **Bioaccumulative potential**

naphthenic

## Section 12. Ecological information

| C C   |            |     |              |  |
|---|------------|-----|--------------|--|
| Product/ingredient name   | LogPow     | BCF | Potential    |  |
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic<br>Dec-1-ene, homopolymer,<br>hydrogenated Dec-1-ene,<br>oligomers, hydrogenated | >6<br>>6.5 | -   | high<br>high |  |

#### **Mobility in soil**

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc)    |                  |

**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.

#### Section 14. Transport information

|                               | DOT Classification | IMDG           | ΙΑΤΑ           |
|-------------------------------|--------------------|----------------|----------------|
| UN number                     | Not regulated.     | Not available. | Not available. |
| UN proper<br>shipping name    | -                  | Not available. | Not available. |
| Transport<br>hazard class(es) | -                  | Not available. | Not available. |
| Packing group                 | -                  | -              | -              |
| Environmental<br>hazards      | 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.

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.

## Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

**Clean Water Act (CWA) 307**: tris(dipentyldithiocarbamato-S,S')antimony; Naphthenic acids, zinc salts; zinc neodecanoate; naphthalene

Clean Water Act (CWA) 311: xylene; maleic anhydride; naphthalene

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.

#### SARA 302/304

#### **Composition/information on ingredients**

SARA 304 RQ : Not applicable.

SARA 311/312

**Classification** : Not applicable.

#### **Composition/information on ingredients**

| Name                           | %  | Classification                                   |
|--------------------------------|----|--|
| calcium carbonate              | <5 | SKIN IRRITATION - Category 2                     |
|                                |    | EYE IRRITATION - Category 2A                     |
| molybdenum disulphide          | <5 | SKIN IRRITATION - Category 2                     |
|                                |    | EYE IRRITATION - Category 2A                     |
|                                |    | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
|                                |    | (Respiratory tract irritation) - Category 3      |
| Distillates, petroleum,        | ≤3 | ASPIRATION HAZARD - Category 1                   |
| hydrotreated, light naphthenic | -  |  |

#### **State regulations**

| Massachusetts | The following components are listed: OIL MIST, MINERAL; molybdenum disulphide;<br>MOLYBDENUM DISULFIDE                                 |
|---------------|--|
| New York      | <ul> <li>The following components are listed: Butene, homopolymer (products derived from<br/>either/or But-1-ene/But-2-ene)</li> </ul> |
| New Jersey    | : The following components are listed: Petroleum Oil (Grease)  |
| Pennsylvania  | : The following components are listed: Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)                       |

#### California Prop. 65 Clear and Reasonable Warnings (2018)

MARNING: This product can expose you to chemicals including Naphthalene, Cumene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

|     | Ingredient name       | %       | Cancer | Reproductive | No significant risk<br>level | Maximum<br>acceptable dosage<br>level |
|-----|-----------------------|---------|--------|--------------|------------------------------|---------------------------------------|
|     | naphthalene           | <0.0001 | Yes.   | No.          | Yes.                         | -                                     |
|     | cumene                | <0.001  | Yes.   | No.          | -                            | -                                     |
| nte | reational regulations |         |        |              |                              |                                       |

#### International regulations

Inventory list

| United States | : All components are listed or exempted. |
|---------------|--|
|---------------|--|

- Australia : At least one component is notlisted.
- Canada : All components are listed or exempted.

#### Section 15. Regulatory information

| <b>_</b>          | -  |
|-------------------|--|
| China             | : At least one component is not listed.  |
| Europe            | : At least one component is not listed.  |
| Japan             | : Japan inventory (ENCS): At least one component is not listed.<br>Japan inventory (ISHL): Not determined. |
| Malaysia          | : Not determined.  |
| New Zealand       | : At least one component is notlisted.   |
| Philippines       | : At least one component is not listed.  |
| Republic of Korea | : At least one component is not listed.  |
| Taiwan            | : Not determined.  |
| Thailand          | : Not determined.  |
| Turkey            | : Not determined.  |
| 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 AQUATIC HAZARD (LONG-TERM) - Category 4 Calculation method History Date of printing : 7/3/2019 Date of issue/Date of : 7/3/2019

| Date of printing               | : 7/3/2019  |
|--------------------------------|---|
| Date of issue/Date of revision | : 7/3/2019  |
| Date of previous issue         | : 12/3/2018   |
| Version                        | : 2   |
| Key to abbreviations           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |
| References                     | : Not available.  |
| Indicates information that     | at has changed from previously issued version.  |
| Notice to reader               |   |

## Section 16. Other information

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