

# **SAFETY DATA SHEET**

**OPEN GEAR (Aerosol)** 

| Section 1. Identi                                          | fication                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS product identifier                                     | : OPEN GEAR                                                                                                                                                                                                                                                                                                                                                                        |
| Product code                                               | : 53-E 102 (400 mL)                                                                                                                                                                                                                                                                                                                                                                |
| SDS no.                                                    | : L-16E                                                                                                                                                                                                                                                                                                                                                                            |
| Product type                                               | : Aerosol                                                                                                                                                                                                                                                                                                                                                                          |
| Relevant identified uses o                                 | f the substance or mixture and uses advised against                                                                                                                                                                                                                                                                                                                                |
| Identified uses                                            | : High load drive lubricant.                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer                                               | : Walter Surface Technologies Inc.<br>5977 Trans Canada Highway<br>Pointe-Claire, QC H9R 1C1<br>Canada<br>info@walter.com<br>www.walter.com<br>General Information: 1-888-592-5837                                                                                                                                                                                                 |
| Emergency telephone<br>number (with hours of<br>operation) | : INFOTRAC <sup>®</sup> 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day, 7 days/week.                                                                                                                                                                                                                                                                      |
| Section 2. Hazar                                           | ds 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                 | : FLAMMABLE AEROSOLS - Category 1<br>GASES UNDER PRESSURE - Compressed gas<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A                                                                                                                                                                                                                                                     |
| GHS label elements                                         |                                                                                                                                                                                                                                                                                                                                                                                    |
| Hazard pictograms                                          |                                                                                                                                                                                                                                                                                                                                                                                    |
| Signal word                                                | : Danger                                                                                                                                                                                                                                                                                                                                                                           |
| Hazard statements                                          | <ul> <li>H222 - Extremely flammable aerosol.</li> <li>H280 - Contains gas under pressure; may explode if heated.</li> <li>H319 - Causes serious eye irritation.</li> </ul>                                                                                                                                                                                                         |
| Precautionary statements                                   | <u>s</u>                                                                                                                                                                                                                                                                                                                                                                           |
| Prevention                                                 | <ul> <li>P280 - Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P251 - Pressurized container: Do not pierce or burn, even after use.</li> </ul> |
| Response                                                   | <ul> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.<br/>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>                                                                                                                            |
| KMK Regulatory Services                                    | Tel : +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767)       1/11         www.kmkregservices.com       www.askdrluc.com       www.ghssmart.com                                                                                                                                                                                                                              |

### Section 2. Hazards identification

| Storage                             | : | P410 - Protect from sunlight.<br>P412 - Do not expose to temperatures exceeding 50°C/122°F.<br>P403 - Store in a well-ventilated place. |
|-------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| Disposal                            | : | Not applicable.                                                                                                                         |
| Hazards not otherwise<br>classified |   | None known.                                                                                                                             |

# Section 3. Composition/information on ingredients

| Substance/mixture | 4 | Mixture           |
|-------------------|---|-------------------|
| Product code      | 1 | 53-E 102 (400 mL) |

| Ingredient name                                                             | %       | CAS number |
|-----------------------------------------------------------------------------|---------|------------|
| Naphtha (petroleum), hydrotreated light                                     | 10 - 30 | 64742-49-0 |
| Silicon dioxide                                                             | 1 - 5   | 7631-86-9  |
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 1 - 5   | 68457-79-4 |

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

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 necessary first aid measures**

| Eye contact  |                       | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20 minutes. Get medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | t<br>r<br>e           | 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. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.                                                                                                                                                                                              |
| Skin contact | v                     | Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse.                                                                                                                                                                                                                                                                                                                                                       |
| Ingestion    | c<br>c<br>a<br>r<br>N | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. 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. |

Most important symptoms/effects, acute and delayed

| Potential acute heal | th effects                                          |
|----------------------|-----------------------------------------------------|
| Eye contact          | : Causes serious eye irritation.                    |
| Inhalation           | : No known significant effects or critical hazards. |
| Skin contact         | : No known significant effects or critical hazards. |
| Ingestion            | : No known significant effects or critical hazards. |

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### Section 4. First aid measures

### Over-exposure signs/symptoms

| orer expectate eignereying |                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact                | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness                                                                                 |
| Inhalation                 | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing                                                                                  |
| Skin contact               | : No known significant effects or critical hazards.                                                                                                                        |
| Ingestion                  | : No known significant effects or critical hazards.                                                                                                                        |
| Indication of immediate me | dical attention and special treatment needed, if necessary                                                                                                                 |
| Notes to physician         | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul>                          |
| 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. |

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

| Extinguishing media                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                      | : In case of fire, use foam, dry chemical or carbon dioxide.                                                                                                                                                                                                                                                                                                                                                                              |
| Unsuitable extinguishing media                    | : Do not use water jet.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specific hazards arising from the chemical        | : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. |
| 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 there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.                                                                                                                      |
| Special protective<br>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<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. In the case of aerosols being ruptured, care should be taken due to the rapid<br>escape of the pressurized contents and propellant. If a large number of containers are<br>ruptured, treat as a bulk material spillage according to the instructions in the clean-up<br>section. Do not touch or walk through spilled material. Shut off all ignition sources. No<br>flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put<br>on appropriate personal protective equipment. |
|--------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For emergency responders       | :   | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Environmental precautions      | :   | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Methods and materials for co   | nta | ainment and cleaning up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Small spill                    | :   | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

disposal container. Dispose of via a licensed waste disposal contractor.
 Large spill
 Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

| Protective measures                    | : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.                                                                                                                                                                                                                                                                                                                                          |



# Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities incompatibilities** 

# Section 8. Exposure controls/personal protection

### Control parameters

#### **United States**

Occupational exposure limits

| Ingredient name                                   | Exposure limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated Silicon dioxide | ht None.<br>NIOSH REL (United States, 10/2016).<br>TWA: 6 mg/m <sup>3</sup> 10 hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Phosphorodithioic acid, mixed O,C                 | s(iso-Bu and pentyl) esters, zinc salts None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>Canada</u>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Occupational exposure lin                         | <u>2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| None.                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Appropriate engineering controls                  | : No personal respiratory protective equipment normally required. Avoid breathing dust/<br>fume/gas/mist/vapors/spray. When workers are facing concentrations above the<br>exposure limit they must use appropriate certified respirators.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Environmental exposure controls                   | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Individual protection measu                       | <u>s</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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: chemical splash goggles.                                                                                                                                                                                                                                                                                                                                       |
| Skin protection                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hand protection                                   | : Chemical-resistant, impervious gloves complying with an approved standard should be<br>worn at all times when handling chemical products if a risk assessment indicates this is<br>necessary. Considering the parameters specified by the glove manufacturer, check<br>during use that the gloves are still retaining their protective properties. It should be<br>noted that the time to breakthrough for any glove material may be different for different<br>glove manufacturers. In the case of mixtures, consisting of several substances, the<br>protection time of the gloves cannot be accurately estimated.<br>Recommended: Nitrile gloves. (Permeation time > 8 hours) |
| 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.                                                                                                                                                                                                                                                                  |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



### Section 8. Exposure controls/personal protection

**Respiratory protection** 

: Use a NIOSH/MSHA approved respirator if there is a risk of exposure at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.

### **Section 9. Physical and chemical properties**

| <u>Appearance</u>                            |                                                                  |  |
|----------------------------------------------|------------------------------------------------------------------|--|
| Physical state                               | Liquid.                                                          |  |
| Color                                        | Gray.                                                            |  |
| Odor                                         | Characteristic.                                                  |  |
| Odor threshold                               | Not available.                                                   |  |
| рН                                           | Not applicable.                                                  |  |
| Melting point                                | Not available.                                                   |  |
| Boiling point                                | Not applicable.                                                  |  |
| Flash point                                  | Closed cup: -60°C (-76°F)                                        |  |
| Evaporation rate                             | Not applicable.                                                  |  |
| Flammability (solid, gas)                    | Extremely flammable aerosol.                                     |  |
| Lower and upper explosive (flammable) limits | Lower: 1.4%<br>Upper: 32%                                        |  |
| Vapor pressure                               | 250 kPa (1875.2 mm Hg) [room temperature]                        |  |
| Vapor density                                | Not available.                                                   |  |
| Relative density                             | 0.72 g/ml @ 20°C (68°F)                                          |  |
| Solubility                                   | Insoluble in the following materials: cold water and hot water.  |  |
| Partition coefficient: n-<br>octanol/water   | Not available.                                                   |  |
| Auto-ignition temperature                    | 510°C (950°F)                                                    |  |
| Decomposition temperature                    | Not available.                                                   |  |
| Viscosity                                    | Dynamic (room temperature): 255 cP (Aerosol), 116000 cP (Liquid) |  |
| Flow time (ISO 2431)                         | Not available.                                                   |  |
| VOC content                                  | 48% (w/w)                                                        |  |
| Aerosol product                              |                                                                  |  |
| Type of aerosol                              | Spray                                                            |  |
| Heat of combustion                           | 15.92 kJ/g                                                       |  |
|                                              |                                                                  |  |

# Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|----------------------------------------------------------------------------------------------|
| Chemical stability                 | : The product is stable.                                                                     |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.            |
| Conditions to avoid                | : Avoid all possible sources of ignition (spark or flame).                                   |
| Incompatible materials             | : Reactive or incompatible with the following materials: oxidizing materials.                |



### Section 10. Stability and reactivity

Hazardous decomposition products

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

### Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                                            | Result    | Species | Dose     | Exposure |
|------------------------------------------------------------------------------------|-----------|---------|----------|----------|
| Phosphorodithioic acid, mixed O,O-<br>bis(iso-Bu and pentyl) esters, zinc<br>salts | LD50 Oral | Rat     | 3.6 g/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result               | Species | Score | Exposure       | Observation |
|-------------------------|----------------------|---------|-------|----------------|-------------|
| Silicon dioxide         | Eyes - Mild irritant | Rabbit  | -     | 24 hours 25 mg | -           |

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

### **Carcinogenicity**

#### **Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| Silicon dioxide         | -    | 3    | -   |

#### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

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

There is no data available.

### Specific target organ toxicity (repeated exposure)

#### There is no data available.

#### Aspiration hazard

| Name                                    | Result                         |
|-----------------------------------------|--------------------------------|
| Naphtha (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |

| Information on the likely routes of exposure | : | Dermal contact. Eye contact. Inhalation. Ingestion. |
|----------------------------------------------|---|-----------------------------------------------------|
| Potential acute health effects               |   |                                                     |
| Eve contact                                  | ÷ | Causes serious eye irritation.                      |

| Inhalation | : No known significant effects or critical hazards. |
|------------|-----------------------------------------------------|
|            |                                                     |

- Skin contact : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.

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





# Section 11. Toxicological information

|                           | -                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Eye contact               | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness                                    |
| Inhalation                | <ul> <li>Adverse symptoms may include the following:<br/>respiratory tract irritation<br/>coughing</li> </ul>                 |
| Skin contact<br>Ingestion | <ul><li>No known significant effects or critical hazards.</li><li>No known significant effects or critical hazards.</li></ul> |

| Delayed and immediate effec    | ts a | and also chronic effects from short and long term exposure |
|--------------------------------|------|------------------------------------------------------------|
| <u>Short term exposure</u>     |      |                                                            |
| Potential immediate<br>effects | :    | No known significant effects or critical hazards.          |
| Potential delayed effects      | 1    | No known significant effects or critical hazards.          |
| Long term exposure             |      |                                                            |
| Potential immediate<br>effects | 1    | No known significant effects or critical hazards.          |
| Potential delayed effects      | 1    | No known significant effects or critical hazards.          |
| Potential chronic health effe  | oct  | <u>5</u>                                                   |
| General                        | 1    | No known significant effects or critical hazards.          |
| Carcinogenicity                | 1    | No known significant effects or critical hazards.          |
| Mutagenicity                   | 1    | No known significant effects or critical hazards.          |
| Teratogenicity                 | 1    | No known significant effects or critical hazards.          |
| <b>Developmental effects</b>   | 1    | No known significant effects or critical hazards.          |
| Fertility effects              | :    | No known significant effects or critical hazards.          |

#### **Numerical measures of toxicity**

Acute toxicity estimates

There is no data available.

# Section 12. Ecological information

#### **Toxicity**

There is no data available.

### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

| Product/ingredient name                                                      | LogPow     | BCF        | Potential |
|------------------------------------------------------------------------------|------------|------------|-----------|
| light                                                                        | 2.2 to 5.2 | 10 to 2500 | high      |
| Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts | 0.69       | -          | low       |





# Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

### **Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### Section 14. Transport information

|                               | DOT Classification                                    | TDG Classification                                    | IMDG                                                  | IATA                                                     |
|-------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|
| UN number                     | UN1950                                                | UN1950                                                | UN1950                                                | UN1950                                                   |
| UN proper<br>shipping name    | Aerosols, flammable (each not exceeding 1 L capacity) | Aerosols, flammable (each not exceeding 1 L capacity) | Aerosols, flammable (each not exceeding 1 L capacity) | Aerosols, flammable (each not<br>exceeding 1 L capacity) |
| Transport<br>hazard class(es) | 2.1                                                   | 2.1                                                   | 2.1                                                   | 2.1                                                      |
| Packing group                 | -                                                     | -                                                     | -                                                     | -                                                        |
| Environmental<br>hazards      | No.                                                   | No.                                                   | No.                                                   | No.                                                      |

Additional information

**TDG Classification** 

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).

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. Protect from freezing. Freezing will damage product and render it unusable.





# Section 15. Regulatory information

| · J ·                                                               | <i>,</i>                                                                                                                       |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| U.S. Federal regulations                                            | : United States inventory (TSCA 8b): All components are listed or exempted.                                                    |
|                                                                     | Clean Water Act (CWA) 307: Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts                         |
|                                                                     | Clean Air Act (CAA) 112 regulated flammable substances: Isobutane; Butane;<br>Propane                                          |
| Clean Air Act Section 112<br>(b) Hazardous Air<br>Pollutants (HAPs) | : Not listed                                                                                                                   |
| Clean Air Act Section 602<br>Class I Substances                     | : Not listed                                                                                                                   |
| Clean Air Act Section 602<br>Class II Substances                    | : Not listed                                                                                                                   |
| DEA List I Chemicals<br>(Precursor Chemicals)                       | : Not listed                                                                                                                   |
| DEA List II Chemicals<br>(Essential Chemicals)                      | : Not listed                                                                                                                   |
| SARA 302/304                                                        |                                                                                                                                |
| Composition/information                                             | on ingredients                                                                                                                 |
| No products were found.                                             |                                                                                                                                |
| SARA 304 RQ                                                         | : Not applicable.                                                                                                              |
| <u>SARA 311/312</u>                                                 |                                                                                                                                |
| Classification                                                      | : FLAMMABLE AEROSOLS - Category 1<br>GASES UNDER PRESSURE - Compressed gas<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
| Composition/information                                             | on ingredients                                                                                                                 |

| Name                                                                                                                                         | Classification                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated light<br>Silicon dioxide<br>Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters,<br>zinc salts | FLAMMABLE LIQUIDS - Category 2<br>ASPIRATION HAZARD - Category 1<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |

#### **SARA 313**

|                                 | Product name                                                                | CAS number |
|---------------------------------|-----------------------------------------------------------------------------|------------|
| Form R - Reporting requirements | Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4 |
| Supplier notification           | Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4 |

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**

| otato rogulationo |                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Massachusetts     | <ul> <li>The following components are listed: Natural Graphite; Silicon dioxide; Isobutane;<br/>Butane; Propane</li> </ul>                                                              |
| New York          | : None of the components are listed.                                                                                                                                                    |
| New Jersey        | <ul> <li>The following components are listed: Natural Graphite; Phosphorodithioic acid, mixed O,<br/>O-bis(iso-Bu and pentyl) esters, zinc salts; Isobutane; Butane; Propane</li> </ul> |
| Pennsylvania      | : The following components are listed: Natural Graphite; Silicon dioxide;<br>Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts; Isobutane;<br>Butane; Propane |

# Section 15. Regulatory information

### California Prop. 65

No products were found.

| <u>Canada</u><br>Canadian lists |                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canadian NPRI                   | <ul> <li>The following components are listed: Phosphorodithioic acid, mixed O,O-bis(iso-Bu and<br/>pentyl) esters, zinc salts; Isobutane; Butane; Propane</li> </ul> |
| <b>CEPA Toxic substances</b>    | : None of the components are listed.                                                                                                                                 |
| Canada inventory (DSL<br>NDSL)  | : All components are listed or exempted.                                                                                                                             |
| International lists             |                                                                                                                                                                      |
| National inventory              |                                                                                                                                                                      |
| Australia                       | : All components are listed or exempted.                                                                                                                             |
| China                           | : All components are listed or exempted.                                                                                                                             |
| Europe                          | : All components are listed or exempted.                                                                                                                             |
| New Zealand                     | : All components are listed or exempted.                                                                                                                             |
| Philippines                     | : All components are listed or exempted.                                                                                                                             |
| Republic of Korea               | : All components are listed or exempted.                                                                                                                             |
| Taiwan                          | : All components are listed or exempted.                                                                                                                             |
| Turkey                          | : All components are listed or exempted.                                                                                                                             |

### Section 16. Other information

### Procedure used to derive the classification

| Classification                        | Justification                                         |
|---------------------------------------|-------------------------------------------------------|
| GASES UNDER PRESSURE - Compressed gas | Expert judgment<br>Expert judgment<br>Expert judgment |

| <u>History</u>           |                                |
|--------------------------|--------------------------------|
| Date of issue mm/dd/yyyy | : 09/30/2018                   |
| Date of previous issue   | : 12/30/2015                   |
| Version                  | : 2                            |
| Prepared by              | : KMK Regulatory Services Inc. |

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