# SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0**

**Product Code(s)**

: **THB023-RingDrive™ Lube 2.0**

**Recommended use of the chemical and restrictions on use**

: Lubricating RingDrive™ engagement mechanisms on bicycle hubs made by Chris King Precision Components.

No restrictions on use known.

**Chemical family**

: Mixture of: Multi-component oil; Lubricating powder

**Name, address, and telephone number of the supplier:**

King Cycle Group, Inc.
DBA Chris King Precision Components

2801 NW Nela Street
Portland, Oregon  97210  U.S.A.

Website: [www.chrisking.com](http://www.chrisking.com)

Email: info@chrisking.com

Supplier's Telephone #

: +1 (503) 972-4050; +1 (800) 523-6008 (Toll free) (Monday to Friday, 8 am to 5 pm, Pacific Time)

**24 Hr. Emergency Tel #**

: Chemtrec: +1 (800) 424-9300 (Within Continental U.S.); +1 (703) 527-3887.

## SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Liquid - amber / gray. Characteristic odor.

**Most important hazards:**

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Label elements**

**Hazard pictogram(s)**

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

**Signal Word**

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

**Hazard statement(s)**

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

**Precautionary statement(s)**

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

**Other hazards**

*Other hazards which do not result in classification:*

Toxic fumes may be released during a fire. May accumulate static charge by flow or agitation. Direct eye contact may cause slight or mild, transient irritation. Direct skin contact may cause slight or mild, transient irritation. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. May cause gastrointestinal irritation.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration (% by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>Synthetic hydrocarbon</td>
<td>68037-01-4</td>
<td>9.0 - 20.0</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>Tungsten (IV) sulfide</td>
<td>12138-09-9</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>68649-42-3</td>
<td>0.1 - &lt; 1.0</td>
</tr>
</tbody>
</table>

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If symptoms develop, seek medical attention.

Inhalation: If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.

Skin contact: For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention.

Eye contact: Flush contaminated area with lukewarm, gently running water for at least 5 to 10 minutes or until the chemical is removed. If irritation or symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed

- Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing.
- Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.
- If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

- Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media: Do not use water jet, as this may spread burning material.

Special hazards arising from the substance or mixture / Conditions of flammability

- Not considered flammable. However, may burn if exposed to extreme heat and flame. This product will accumulate static charge by flow, splashing or agitation. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.

Flammability classification (OSHA 29 CFR 1910.106)

- Not classified as flammable.
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Hazardous combustion products

Carbon oxides; Sulfur oxides; Aldehydes; Metal oxides; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Normal protective clothing (bunker gear) may not be adequate. A full-body encapsulating chemical protective suit may be necessary.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Keep in properly labelled containers. Contact the proper local authorities.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): None known.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation. Wear protective equipment during handling. Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. The material can accumulate static charge and can therefore cause electrical ignition. To reduce potential for static discharge, use proper bonding and grounding procedures. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue and can be dangerous.

Conditions for safe storage

Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials

Strong oxidizing agents; Strong acids
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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>5 mg/m³ (supplier)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>3 mg/m³ (respirable) (Tungsten and compounds in the absence of Cobalt)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Exposure controls

Ventilation and engineering measures:
- Provide adequate ventilation. Local ventilation is recommended if the product is misted or used in a confined space, or if the TLV is exceeded.

Respiratory protection:
- If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection:
- Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Depending on conditions of use, an impervious apron should be worn.

Eye / face protection:
- Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

Other protective equipment:
- An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations:
- Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid - amber / gray
Odor: Characteristic
Odor threshold: N/Av
pH: N/Av
Melting-Freezing point: N/Av
Initial boiling point and boiling range: N/Av
Flash point: > 200°C (392°F)
Flashpoint (Method): ASTM D92
Evaporation rate (BuAe = 1): N/Av
Flammability (solid, gas): Not applicable.
Lower flammable limit (% by vol.): 0.9%
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Upper flammable limit (% by vol.) : 7.0%
Oxidizing properties : None known.
Explosive properties : Not explosive
Vapor pressure : < 0.013 kPa @ 20°C (68°F)
Vapor density : > 2 (Air = 1.0)
Relative density / Specific gravity : 0.86
Solubility in water : negligible
Other solubility(ies) : N/Av
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : N/Av
Auto-ignition temperature : N/Av
Decomposition temperature : N/Av
Viscosity : 63.2 cSt @ 40°C (104°F)
Volatiles (% by weight) : N/Ap
Volatile organic Compounds (VOC's) : N/Av
Absolute pressure of container : N/Ap
Flame projection length : N/Ap
Other physical/chemical comments : Pour point: -36°C (-33°F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat and open flame.
Incompatible materials : Strong oxidizing agents; Strong acids
Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : NO
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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Signs and symptoms Inhalation
- If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties.

Signs and symptoms ingestion
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Signs and symptoms skin
- Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Signs and symptoms eyes
- Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing.

Potential Chronic Health Effects
- Repeated exposure may cause skin dryness or cracking.

Mutagenicity
- No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
- No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity
- This product is not expected to cause reproductive or developmental effects.

Sensitization to material
- Not expected to be a skin or respiratory sensitizer.

Specific target organ effects
- Not classified as a specific target organ toxicity-single exposure.
- Not classified as a specific target organ toxicity - repeated exposure.

Medical conditions aggravated by overexposure
- Pre-existing skin, eye and respiratory disorders.

Synergistic materials
- None known or reported by the manufacturer.

Toxicological data
- Not classified for acute toxicity based on available data. No data is available on the product itself.

See below for individual ingredient acute toxicity data.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC_50 (4hr) inh, rat</th>
<th>LD_50 (Oral, rat)</th>
<th>LD_50 (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>&gt; 5.2 mg/L (aerosol) (No mortality)</td>
<td>&gt; 2000 mg/kg (No mortality)</td>
<td>&gt; 2000 mg/kg (No mortality)</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>&gt; 5.25 mg/L (aerosol) (No mortality)</td>
<td>&gt; 2000 mg/kg (No mortality)</td>
<td>&gt; 2000 mg/kg (No mortality)</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>&gt; 5 mg/L (aerosol) (No mortality)</td>
<td>2154 mg/kg</td>
<td>&gt; 3160 mg/kg (No mortality)</td>
</tr>
</tbody>
</table>

Other important toxicological hazards
- None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
- The product is not classified as environmentally hazardous.

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Zinc dialkyldithiophosphate.

See the following tables for individual ingredient ecotoxicity data.
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### Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC50 / 96h</td>
</tr>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>&gt; 1000 mg/L (Rainbow trout)</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>12138-09-9</td>
<td>N/Av</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>68649-42-3</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC50 / 48h</td>
</tr>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>&gt; 1000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>12138-09-9</td>
<td>N/Av</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>68649-42-3</td>
<td>1 - 1.5 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC50 / 96h or 72h</td>
</tr>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>&gt; 1000 mg/L/72hr (Green algae)</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>12138-09-9</td>
<td>N/Av</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>68649-42-3</td>
<td>1 - 5 mg/L/96hr (Green algae)</td>
</tr>
</tbody>
</table>

**Persistence and degradability:**

No data is available on the product itself. Contains the following chemicals which are not readily biodegradable: 1-Decene, homopolymer, hydrogenated; Tungsten disulfide; Zinc dialkyldithiophosphate.

**Bioaccumulation potential:**

No data is available on the product itself. See the following data for ingredient information.

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/water (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated (CAS 68037-01-4)</td>
<td>&gt; 6.5</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

**Mobility in soil:**

No data is available on the product itself.

**Other Adverse Environmental effects:**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
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SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle waste according to recommendations in Section 7. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>49CFR/DOT</td>
<td>None.</td>
<td>Not regulated.</td>
<td>Not regulated</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>Not regulated</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>TDG Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>None.</td>
<td>Not regulated.</td>
<td>Not regulated</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>ICAO/IATA Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>Not regulated</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>IMDG Additional information</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user: Appropriate advice on safety must accompany the package. Keep away from flames and sparks.

Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.
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SECTION 15 - REGULATORY INFORMATION

US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>12138-09-9</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>68649-42-3</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III:  Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:
The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65</th>
<th>State &quot;Right to Know&quot; Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>No</td>
<td>CA</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>12138-09-9</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>68649-42-3</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Canadian Information:
CEPA information: All ingredients are listed on the DSL, or are exempted materials.
Canadian National Pollutant Release Inventory (NPRI): This product does not contain any substances listed on the NPRI.
WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.
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International Information:
Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECI/KECL</th>
<th>China IECSC</th>
<th>New Zealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Undecene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>500-183-1</td>
<td>Present</td>
<td>Present</td>
<td>(6)-1109; (6)-1470</td>
<td>KE-09505</td>
<td>Present</td>
<td>May be used as a single component chemical under an appropriate group standard.</td>
</tr>
<tr>
<td>Tungsten disulfide</td>
<td>12138-09-9</td>
<td>235-243-3</td>
<td>Present</td>
<td>Not listed</td>
<td>(1)-1179</td>
<td>KE-35009</td>
<td>Present</td>
<td>Not listed</td>
</tr>
<tr>
<td>Zinc dialkyldithiophosphate</td>
<td>68649-42-3</td>
<td>272-028-3</td>
<td>Present</td>
<td>Present</td>
<td>(2)-2846</td>
<td>KE-28667</td>
<td>Present</td>
<td>May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.</td>
</tr>
</tbody>
</table>

SECTION 16. OTHER INFORMATION

Legend:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- IOC: Inventory of Chemicals
- IUCLID: International Uniform Chemical Information Database
- KECl: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- mppcf: million particles per cubic foot
- MSHA: Mine Safety and Health Administration
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
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NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
Rhode Island
RDTECs: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Threshold Limit Values
TWA: Time Weighted Average
TSCA: Toxic Substance Control Act
WHMIS: Workplace Hazardous Materials Identification System

References:
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.

Preparation Date (mm/dd/yyyy): 01/11/2018
Other special considerations for handling:
Provide adequate information, instruction and training for operators.

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