SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label
: Chris King® Blue Grease

Other means of identification : THB029; THB030

Recommended use of the chemical and restrictions on use
: Lubricating grease for bicycles.
Restrictions on use: Not available.

Chemical family
: Mixture of: Base oil; Additives

Name, address, and telephone number of the manufacturer:
King Cycle Group, Inc.
DBA Chris King Precision Components
2801 NW Nela Street
Portland, OR, U.S.A. 97210
Telephone: +1 (503) 972-4050; +1 (800) 523-6008 (Toll Free) (Monday to Friday, 8 am to 5 pm, Pacific Time)

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 Blue -
Blue Semi-solid. 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.

Harmful to aquatic life with long lasting effects. Avoid release to the environment. 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 U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

Hazard statement(s)
None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

Precautionary statement(s)
None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.
SAFETY DATA SHEET

Other hazards

Other hazards which do not result in classification:
Toxic fumes may be released during a fire. 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

<table>
<thead>
<tr>
<th>Mixture</th>
<th>CAS #</th>
<th>Concentration (% by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>68187-67-7</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Amines, C12-14-tert-alkyl, isooctyl mono phosphates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-1-(2-Hydroxyethyl) -2-heptadecenyl-2-imidazoline Long chain alkyl imidazole</td>
<td>27136-73-8</td>
<td>0.1 - 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**: If ingested, 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. 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.
SAFETY DATA SHEET

Flammability classification (OSHA 29 CFR 1910.106)
: Not classified as flammable.

Hazardous combustion products
: Carbon oxides; Sulfur oxides; Aldehydes; 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.

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. Avoid release to the environment.

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. 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
SAFETY DATA SHEET

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>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>STEL</td>
</tr>
<tr>
<td>Amines, C12-14-alkyl, isoctyl phosphates</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td></td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Exposure controls

Ventilation and engineering measures

Respiratory protection

If airbourne 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. Advice should be sought from respiratory protection specialists.

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

Blue - Semi-solid.

Odour

Characteristic odor.

Odour threshold

N/Av

pH

N/Av

Melting Point/Freezing point

Melting point: > 250°C (482°F)
Freezing point: N/Av

Initial boiling point and boiling range

> 330°C (626°F)

Flash point

> 204°C (399°F)

Flashpoint (Method)

Cleveland Open Cup

Evaporation rate (BuAo = 1)

N/Av

Flammability (solid, gas)

Not classified as flammable.

Lower flammable limit (% by vol.)

N/Av

Upper flammable limit (% by vol.)

N/Av

Oxidizing properties

No oxidizing properties.
SAFETY DATA SHEET

Explosive properties: Not explosive
Vapour pressure: < 0.013 kPa (0.1 mmHg) @ 20°C (68°F)
Vapour density: N/Av
Relative density / Specific gravity:
  - Relative density: 884 kg/m³ (7.38 lbs/gal) @ 15°C (59°F)
  - Specific Gravity: 0.884 @ 15°C (59°F)
Solubility in water: Negligible.
Other solubility(ies): N/Av
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution: > 3.5
Auto-ignition temperature: N/Av
Decomposition temperature: N/Av
Viscosity:
  - 95 cSt @ 40°C (104°F) (Base Oil)
Volatiles (% by weight):
  - N/Av
Volatile organic Compounds (VOC’s): N/Av
Absolute pressure of container: N/Ap
Flame projection length: N/Ap
Other physical/chemical comments:
  - DMSO Extract (mineral oil only), IP-346: < 3% wt

SECTION 10. STABILITY AND REACTIVITY
Reactivity: Not normally reactive.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions:
  - Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.
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
Hazardous decomposition products:
  - Not available.
In the event of fire: Refer also to hazardous combustion products, 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

Potential Health Effects:
Signs and symptoms of short-term (acute) exposure
  - 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.
SAFETY DATA SHEET

Sign and symptoms ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Sign 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

Not classified for acute toxicity based on available data. No data is available on the product itself. The calculated ATE values for this mixture are:

ATE oral = > 20,000 mg/kg
ATE dermal = > 40,000 mg/kg

Toxicological data

See below for individual ingredient acute toxicity data.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC50 (4hr) inh. rat</th>
<th>LD50 (Oral, rat)</th>
<th>LD50 (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>N/Av</td>
<td>1000 - 2000 mg/kg</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>N/Av</td>
<td>500 mg/kg</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Other important toxicological hazards

None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects. 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.

See the following tables for individual ingredient ecotoxicity data.
SAFETY DATA SHEET

Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>68187-67-7</td>
<td>LC50 / 96h &gt; 1, &lt; 2 mg/L (Zebrafish)</td>
<td>NOEC / 21 day</td>
<td>N/Av</td>
<td>None.</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>27136-73-8</td>
<td>0.33 mg/L (Zebrafish)</td>
<td>N/Av</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Daphnia</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>68187-67-7</td>
<td>EC50 / 48h 17 mg/L (Daphnia magna)</td>
<td>NOEC / 21 day</td>
<td>N/Av</td>
<td>None.</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>27136-73-8</td>
<td>0.29 mg/L (Daphnia magna)</td>
<td>N/Av</td>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Algae</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>68187-67-7</td>
<td>EC50 / 96h or 72h 0.8 mg/L/72hr (Green algae)</td>
<td>NOEC / 96h or 72h</td>
<td>0.32 mg/L/72hr</td>
<td>1</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>27136-73-8</td>
<td>N/Av</td>
<td>N/Av</td>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability:

No data is available on the product itself. Contains the following chemicals which are not readily biodegradable: Amines, C12-14-tert-alkyl, isooctyl mono phosphates; Long chain alkyl imidazole. Contains the following chemicals which are considered to be inherently biodegradable: Base oil - unspecified.

Bioaccumulation potential:

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

Components:

<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>Amines, C12-14-alkyl, isooctyl phosphates (CAS 68187-67-7)</td>
<td>≥ 1.64 - ≤ 5.47</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.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal:

Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. 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.
SAFETY DATA SHEET

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>Not regulated.</td>
<td>not regulated</td>
<td>none</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>Not regulated.</td>
<td>not regulated</td>
<td>none</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>Not regulated.</td>
<td>not regulated</td>
<td>none</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>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user:

Appropriate advice on safety must accompany the package.

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.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:
# SAFETY DATA SHEET

## Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>TSCA Reportable Quantity(RQ) (40 CFR 117.302):</th>
<th>CERCLA Inventory</th>
<th>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical</th>
<th>de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>68187-67-7</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
<td>N/Ap</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>27136-73-8</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
<td>N/Ap</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 “Right to Know” Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-alkyl, isooctyl phosphates</td>
<td>68187-67-7</td>
<td>No</td>
<td>CA No MA No MN No NJ No PA No RI No</td>
</tr>
<tr>
<td>1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-</td>
<td>27136-73-8</td>
<td>No</td>
<td>CA No MA No MN No NJ No PA No RI No</td>
</tr>
</tbody>
</table>

## Canadian Information:

Canadian Environmental Protection Act (CEPA): All ingredients are listed on the DSL, or are exempted materials.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

## International Information:

Components listed below are present on the following International Inventory list:
SAFETY DATA SHEET

Ingredients | CAS #  | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
---|---|---|---|---|---|---|---|---|
Amines, C12-14-alkyl, isoctyl phosphates | 68187-67-7 | 269-119-5 | Present | Present | (2)-1922 | 2010-3-4781 | Present | 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.

1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro- | 27136-73-8 | 248-248-0 | Present | Present | (5)-425; (5)-3496 | KE-18244 | Present | 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.

SECTION 16. OTHER INFORMATION

Legend:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EC50: Effective Concentration 50%
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- IBC: Intermediate Bulk Container
- ICAO: International Civil Aviation Organisation
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- IOC: Inventory of Chemicals
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- N/Adj: Not Applicable
- N/A: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NOEC: No observable effect concentration
- NTP: National Toxicology Program
- OECD: Organisation for Economic Co-operation and Development
SAFETY DATA SHEET

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
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SCBA: Self-Contained Breathing Apparatus
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.

Preparation Date (mm/dd/yyyy):
04/05/2019

Other special considerations for handling:
Provide adequate information, instruction and training for operators.

Prepared for:
King Cycle Group, Inc.
DBA Chris King Precision Components
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