SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : Chris King® Silver Grease
   Product Code(s) : THB027; THB028

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

   Use pattern: professional use Consumer use Retail products
   No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

   King Cycle Group, Inc.
   DBA Chris King Precision Components
   2801 NW Nela Street
   Portland, Oregon 97210 U.S.A.
   Website: www.chrisking.com
   Email: info@chrisking.com
   Telephone : +1 (503) 972-4050
   +1 (703) 527-3887 (Chemtrec - U.S.)

1.4 Emergency Telephone Number

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

   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.

   The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

   Hazard pictogram(s)

   None required according to Regulation (EC) No. 1272/2008.

   Hazardous components which must be listed on the label:

   None.

   Signal word:
   None required according to Regulation (EC) No. 1272/2008.

   Hazard statements:
   None required according to Regulation (EC) No. 1272/2008.
SAFETY DATA SHEET

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Precautionary statements:
None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:
None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards
Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes.
Direct eye contact may cause slight or mild, transient irritation. Direct skin contact may cause slight or mild, transient irritation. If product is heated, inhalation of fumes may cause irritation to the nose, throat and respiratory tract. May cause gastrointestinal irritation.

PBT assessment:
This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable

3.2 Mixtures
Chemical nature - Mixture of: Base oil; Calcium sulfonate thickener; Anti-wear additives.

The following substances shall be indicated according to legislation:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS #</th>
<th>EC No.</th>
<th>Concentration</th>
<th>CLP Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>1317-33-5</td>
<td>215-263-9</td>
<td>3.0 - 7.0</td>
<td>not hazardous (self classified)</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.

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. When symptoms persist or in all cases of doubt, seek medical advice.

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.

4.2 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, inhalation of fumes 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.

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.
SAFETY DATA SHEET
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 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.

5.2 Special hazards arising from the substance or mixture
- 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. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Sulphur oxides; Nitrogen oxides (NOx); Phosphorus compounds; Metal oxides; Other unidentified organic compounds.

5.3 Advice 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

6.1 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.

6.2 Environmental precautions

- Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Avoid release to the environment.

6.3 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). Pick up and transfer to properly labeled containers. Contact the proper local authorities.

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 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.

7.2 Conditions for safe storage, including any incompatibilities
SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

7.3 Specific end use(s) : Lubricant

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure Limits</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>10.0 mg/m³ (TWA)</td>
<td>Bulgaria (OEL)</td>
<td>(as Mo)</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³ (TWA)</td>
<td>Czech Republic (OEL)</td>
<td>(as Mo)</td>
</tr>
<tr>
<td></td>
<td>25 mg/m³ (Ceiling Limit Value)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.5 mg/m³ (TWA)</td>
<td>Ireland (OEL)</td>
<td>(as Mo)</td>
</tr>
<tr>
<td></td>
<td>1.5 mg/m³ (respirable dust) (STEL)</td>
<td>Poland (OEL)</td>
<td>(as Mo)</td>
</tr>
<tr>
<td></td>
<td>4 mg/m³ (TWA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ (STEL)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures :

Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection :

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. 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. See also EN 166.

Other protective equipment
SAFETY DATA SHEET

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

9.1 Information on basic physical and chemical properties

- Appearance: Platinium - Semi-Solid
- Odour: Petroleum odour.
- Odour threshold: No information available.
- pH: Not applicable.
- Flash point: > 150°C
- Flashpoint (Method): Pensky Martens Closed Cup
- Lower flammable limit (% by vol.): No information available.
- Upper flammable limit (% by vol.): No information available.
- Flammability (solid, gas): Not applicable.
- Auto-ignition temperature: No information available.
- Decomposition temperature: No information available.
- Oxidizing properties: None known.
- Explosive properties: Not explosive
- Initial boiling point and boiling range: No information available.
- Melting/Freezing point: No information available.
- Relative density: 999 kg/m³ @ 15.6°C
- Specific Gravity: 1.0 @ 15.6°C
- Solubility in water: negligible
- Other solubility(ies): No information available.
- Vapour pressure: No information available.
- Vapour density: > 1 (Air = 1.0)
- Partition coefficient: n-octanol/water: 37 mm²/sec @ 40°C (Base Oil)
- Viscosity: No information available.
- Evaporation rate (BuAe = 1): No information available.

9.2 Other Information

- Volatiles (% by weight): Not applicable.
- Volatile organic Compounds (VOC's): No information available.
- Other physical/chemical comments: Dropping point: 280°C
SAFETY DATA SHEET

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
- Not normally reactive.

10.2 Chemical stability
- Stable under normal conditions.

10.3 Possibility of hazardous reactions
- Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid
- Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat and open flame.

10.5 Incompatible materials
- Strong oxidizing agents; Strong reducing agents

10.6 Hazardous decomposition products
- None known.
- In the event of fire the following can be released: Carbon oxides; Sulphur oxides; Nitrogen oxides (NOx); Phosphorus oxides; Metal oxides; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity
- According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation
- According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.

Serious eye damage/irritation
- According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation
- According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
- According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

Germ cell mutagenicity
- Contains no ingredient listed as a mutagen.

Carcinogenicity
- Contains no ingredient listed as a carcinogen.

Reproductive toxicity
- Contains no ingredient listed as toxic to reproduction.

STOT-single exposure
- According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure
- According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard
- According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Toxicological 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>LC50(4hr) inh, rat (dust) (No mortality)</th>
<th>LD50 (Oral, rat) (No mortality)</th>
<th>LD50 (Rabbit, dermal) (No mortality)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>&gt; 2.82 mg/L</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Routes of exposure
- Eye contact; Skin contact
- Ingestion; Inhalation
SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Effects of acute exposure:
- Inhalation: If product is heated, inhalation of fumes may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties. Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness. Eye contact: Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing. Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects:
- None known or reported by the manufacturer.

Other important hazards:
- Repeated exposure may cause skin dryness or cracking.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:
- 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.

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>Molybdenum disulphide</td>
<td>1317-33-5</td>
<td>644.2 mg/L (Fathead minnow)</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>Molybdenum disulphide</td>
<td>1317-33-5</td>
<td>130.9 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>Molybdenum disulphide</td>
<td>1317-33-5</td>
<td>289.2 mg/L/72hr (Green algae)</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability:
- No data is available on the product itself. Contains the following chemicals which are not readily biodegradable: Molybdenum disulphide.

12.3 Bioaccumulation potential:
- No data is available on the product itself.

12.4 Mobility in soil:
- No data is available on the product itself.

12.5 Results of PBT and vPvB assessment:
SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 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

13.1 Waste Treatment Methods:

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

Methods of Disposal: Empty containers may contain hazardous residues. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORTATION INFORMATION

14.5 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.

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>14.1 UN Number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID</td>
<td>None.</td>
<td>not regulated</td>
<td>not regulated</td>
<td>not regulated</td>
<td>none</td>
</tr>
<tr>
<td>EU ADR/RID Classification Code</td>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU ADR / RID Hazard Identification Number</td>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADR/RID Additional information</td>
<td>Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.</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></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></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

King Cycle Group, Inc.
DBA Chris King Precision Components
2801 NW Nela Street
Portland, Oregon 97210 U.S.A.
Telephone: +1-503-972-4050

Chris King® Silver Grease
SDS Preparation Date (dd/mm/yyyy): 01/04/2019

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

14.6 Special precautions for user

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

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
None of the components are specifically listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:
None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:
None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:
None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:
None of the components are specifically listed.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on water endangering substances VwVwS - Water contaminating class (Germany): 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION
SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Legend

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS: Chemical Abstract Services  
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
EC: European Community  
EC50: Effective Concentration 50%  
ECH: European Chemicals Agency  
EEC: European Economic Community  
EINECS: European Inventory of Existing Commercial chemical Substances  
EN: European Standard  
EU: European Union  
HSDB: Hazardous Substances Data Bank  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
NOEC: No observable effect concentration  
OECD: Organisation for Economic Co-operation and Development  
OEL: National occupational exposure limits  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
RTECS: Registry of Toxic Effects of Chemical Substances  
SCBA: Self-Contained Breathing Apparatus  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
WEL: Workplace Exposure Limit

Information Source

1. Material Safety Data Sheet from manufacturer.  
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2019 (Chempendium, RTECs, HSDB, INCHEM).  

Preparation Date (dd/mm/yyyy)

01/04/2019

H-Phrases (Full text)

Not applicable.

Other special considerations for handling

Provide adequate information, instruction and training for operators.
SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Chris King Precision Components and CCOHS’ Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Chris King Precision Components expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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END OF DOCUMENT