

Chris King® Blue Grease

THB029; THB030

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

Page 1 of 12

## 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® Blue Grease**

**Product Code(s)** : THB029; THB030

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

: Lubricating grease for bicycles.  
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](http://www.chrisking.com)

Email: [info@chrisking.com](mailto:info@chrisking.com)

**Telephone** : 1+ (503) 972-4050

**1.4 Emergency Telephone Number**

: +1 (703) 527-3887 (Chemtrec - United States of America)

### SECTION 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

blue - Semi-solid. Characteristic odour.

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 mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:

Chronic aquatic toxicity - Category 3; H412

EUH208

**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 required according to Regulation (EC) No. 1272/2008.

Signal word:

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

Hazard statements:

H412 - Harmful to aquatic life with long lasting effects.

Chris King® Blue Grease

THB029; THB030

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

Page 2 of 12

## SAFETY DATA SHEET

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

### Precautionary statements:

- P273 - Avoid release to the environment.
- P501 - Dispose of contents/container in accordance with local regulation.

### Supplemental Hazard Statements:

EUH208 - Contains :H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-. May produce an allergic reaction.

### 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 or mists are formed, inhalation 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; Additive.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	CLP Classification
Amines, C12-14-alkyl, isoocetyl phosphates	68187-67-7	269-119-5	1.0 - 5.0	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor = 1 (supplier)
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	27136-73-8	248-248-0	0.1 - 0.25	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor = 1 (supplier)

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

## SECTION 4. FIRST-AID MEASURES

### 4.1 Description of first aid measures

- Ingestion* : If ingested, 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 stops, provide 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. When symptoms persist or in all cases of doubt, seek medical advice.
- Eye contact* : Flush contaminated area with lukewarm, gently running water for at least 5 to 10 minutes or until the chemical is removed. When symptoms persist or in all cases of doubt, seek medical advice.

Chris King® Blue Grease

THB029; THB030

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

Page 3 of 12

## SAFETY DATA SHEET

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

### 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 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.

### 4.3 Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

## 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; Aldehydes; 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. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. 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. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. 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 material.

Chris King® Blue Grease

THB029; THB030

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

Page 4 of 12

## SAFETY DATA SHEET

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

### 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 extreme heat and direct flame. Keep away from incompatibles. Keep container tightly closed when not in use. Empty containers retain residue and can be dangerous.

#### 7.2 Conditions for safe storage, including any incompatibilities

- : Store in a cool, dry, well ventilated area. Protect from sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

#### 7.3 Specific end use(s)

- : Lubricant

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters

<b>Exposure Limits:</b>			
<b>Chemical Name</b>	<b>Exposure Limits</b>	<b>Type</b>	<b>Notes</b>
Amines, C12-14-alkyl, isooctyl phosphates	None known.	European Union (OEL)	None.

#### **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.

Chris King® Blue Grease

THB029; THB030

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

Page 5 of 12

## SAFETY DATA SHEET

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

### 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

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	: Blue Semi-solid.
<b>Odour</b>	: Characteristic odour.
<b>Odour threshold</b>	: No information available.
<b>pH</b>	: Not applicable.
<b>Flash point</b>	: > 204°C
<b>Flashpoint (Method)</b>	: Cleveland Open Cup
<b>Lower flammable limit (% by vol.)</b>	: No information available.
<b>Upper flammable limit (% by vol.)</b>	: No information available.
<b>Flammability (solid, gas)</b>	: Not classified as flammable.
<b>Auto-ignition temperature</b>	: No information available.
<b>Decomposition temperature</b>	: No information available.
<b>Oxidizing properties</b>	: No oxidizing properties.
<b>Explosive properties</b>	: Not explosive
<b>Initial boiling point and boiling range</b>	: > 330°C
<b>Melting/Freezing point</b>	: Melting point: > 250°C Freezing point: No information available.
<b>Relative density</b>	: Relative density: 884 kg/m <sup>3</sup> @ 15°C Specific Gravity: 0.884 @ 15°C
<b>Solubility in water</b>	: negligible
<b>Other solubility(ies)</b>	: No information available.
<b>Vapour pressure</b>	: < 0.013 kPa (0.1 mmHg) @ 20°C
<b>Vapour density</b>	: No information available.
<b>Partition coefficient: n-octanol/water</b>	: > 3.5
<b>Viscosity</b>	: 95 cSt @ 40°C (Base Oil)
<b>Evaporation rate (BuAe = 1)</b>	: No information available.

### 9.2 Other Information

<b>Volatiles (% by weight)</b>	: No information available.
<b>Volatile organic Compounds (VOC's)</b>	: No information available.

Chris King® Blue Grease

THB029; THB030

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

Page 6 of 12

## SAFETY DATA SHEET

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

### Other physical/chemical comments

: DMSO Extract (mineral oil only), IP-346: < 3% w/t

### 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.

**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

#### 10.6 Hazardous decomposition products

: Not available.

Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Sulphur oxides; Aldehydes; 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, the product is not considered as being a skin 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. Contains .?. May produce an allergic reaction.

**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** : 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

See below for individual ingredient acute toxicity data.

Chris King® Blue Grease

THB029; THB030

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

Page 7 of 12

## SAFETY DATA SHEET

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

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Amines, C12-14-alkyl, isooctyl phosphates	No information available.	1000 - 2000 mg/kg	2000 mg/kg
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	No information available.	500 mg/kg	No information available.

**Routes of exposure** : Inhalation; Skin contact; Eye contact; Ingestion

**Effects of 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.

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**

: Prolonged or repeated skin contact may cause drying and irritation.

**Other important hazards** : None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** : Harmful to aquatic life with long lasting effects. No data is available on the product itself. Should not be released into the environment. The product contains the following substances which are hazardous for the environment: Amines, C12-14-alkyl, isooctyl phosphates; 1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Amines, C12-14-alkyl, isooctyl phosphates	68187-67-7	> 1, < 2 mg/L (Zebra fish)	No information available.	None.
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	27136-73-8	0.33 mg/L (Zebra fish)	No information available.	1

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Amines, C12-14-alkyl, isooctyl phosphates	68187-67-7	17 mg/L (Daphnia magna)	No information available.	None.
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	27136-73-8	0.29 mg/L (Daphnia magna)	No information available.	1

Chris King® Blue Grease

THB029; THB030

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

Page 8 of 12

## SAFETY DATA SHEET

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

<u>Ingredients</u>	CAS No	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Amines, C12-14-alkyl, isoocetyl phosphates	68187-67-7	0.8 mg/L/72hr (Green algae)	0.32 mg/L/72hr	1
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	27136-73-8	No information available.	No information available.	None.

### 12.2 Persistence and degradability

- : No data is available on the product itself.
- Contains the following chemicals which are not readily biodegradable: Amines, C12-14-alkyl, isoocetyl phosphates; 1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-.
- Contains the following chemicals which are considered to be inherently biodegradable: Base oil - unspecified.

### 12.3 Bioaccumulation potential

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

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Amines, C12-14-alkyl, isoocetyl phosphates (CAS 68187-67-7)	≥ 1.64 - ≤ 5.47	No information available.

### 12.4 Mobility in soil

- : No data is available on the product itself.

### 12.5 Results of PBT and vPvB 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).

### 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 retain residue and can be dangerous. 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.



Chris King® Blue Grease

THB029; THB030




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

Page 9 of 12

**SAFETY DATA SHEET**

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

**SECTION 14. TRANSPORTATION INFORMATION**

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

**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.

**14.6 Special precautions for user**

: Appropriate advice on safety must accompany the package.

**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**

**Chris King® Blue Grease**

THB029; THB030

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

Page 10 of 12

## SAFETY DATA SHEET

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

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

Amines, C12-14-alkyl, isooctyl phosphates (CAS # 68187-67-7)

1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro- (CAS # 27136-73-8)

Directive 94/33/EC on the protection of young people at work:

Amines, C12-14-alkyl, isooctyl phosphates (CAS # 68187-67-7)

1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro- (CAS # 27136-73-8)

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 substances that are hazardous to water AwSV: Water hazard 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.

Chris King® Blue Grease

THB029; THB030

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

Page 11 of 12

**SAFETY DATA SHEET**

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

**SECTION 16. OTHER INFORMATION**

- Legend** : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS: Chemical Abstract Services  
EC: European Community  
EC50: Effective Concentration 50%  
ECHA: European Chemicals Agency  
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  
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, CCHInfoWeb Databases, 2019 (Chempendium, RTECs, HSDB, INCHEM).  
3. European Chemicals Agency, Classification Legislation, 2019.  
4. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.
- Preparation Date (dd/mm/yyyy)** : 05/04/2019
- H-Phrases (Full text)** : EUH071 - Corrosive to the respiratory tract.  
EUH208 - Contains .?. May produce an allergic reaction.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.  
H412 - Harmful to aquatic life with long lasting effects.
- Other special considerations for handling** : Provide adequate information, instruction and training for operators.

**Chris King® Blue Grease**

THB029; THB030

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

Page 12 of 12

## SAFETY DATA SHEET

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

<p><b>Prepared for:</b> King Cycle Group, Inc. DBA Chris King Precision Components 2801 NW Nela Street Portland, Oregon 97210 U.S.A. Telephone: +1 (503) 972-4050 Direct all enquiries to: Chris King Precision Components</p>	
<p><b>Prepared by:</b> ICC The Compliance Center Inc. <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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