

RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0

THB023

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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

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.

Name, address, and telephone number of the manufacturer:

Refer to supplier

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

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

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

<u>Exposure Limits:</u>					
	<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
1-Decene, homopolymer, hydrogenated	5 mg/m ³ (supplier)	N/Av	N/Av	N/Av	
Tungsten disulfide	3 mg/m ³ (respirable) (Tungsten and compounds in the absence of Cobalt)	N/Av	5 mg/m ³ (as Tungsten) (final rule limit)	10 mg/m ³ (as Tungsten) (final rule limit)	
Zinc dialkyldithiophosphate	N/Av	N/Av	N/Av	N/Av	

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/Av

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Av

Flame projection length : N/Av

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

Sign 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.

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

- : 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.

<u>Chemical name</u>	<u>LC₅₀ (4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
1-Decene, homopolymer, hydrogenated	> 5.2 mg/L (aerosol) (No mortality)	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Tungsten disulfide	> 5.25 mg/L (aerosol) (No mortality)	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Zinc dialkyldithiophosphate	> 5 mg/L (aerosol) (No mortality)	2154 mg/kg	> 3160 mg/kg (No mortality)

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 dialkyl dithiophosphate.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
1-Decene, homopolymer, hydrogenated	68037-01-4	> 1000 mg/L (Rainbow trout)	N/Av	None.
Tungsten disulfide	12138-09-9	N/Av	N/Av	None.
Zinc dialkyldithiophosphate	68649-42-3	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
1-Decene, homopolymer, hydrogenated	68037-01-4	> 1000 mg/L (Daphnia magna)	125 mg/L	None.
Tungsten disulfide	12138-09-9	N/Av	N/Av	None.
Zinc dialkyldithiophosphate	68649-42-3	1 - 1.5 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
1-Decene, homopolymer, hydrogenated	68037-01-4	> 1000 mg/L/72hr (Green algae)	1000 mg/L/72hr	None.
Tungsten disulfide	12138-09-9	N/Av	N/Av	None.
Zinc dialkyldithiophosphate	68649-42-3	1 - 5 mg/L/96hr (Green algae)	N/Av	None.

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 dialkyl dithiophosphate.

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>
1-Decene, homopolymer, hydrogenated (CAS 68037-01-4)	> 6.5	N/Av

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

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	None	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	Not regulated	None	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	None	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	Not regulated	None	
IMDG Additional information	None.				

- 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:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
1-Decene, homopolymer, hydrogenated	68037-01-4	Yes	None.	None.	No	N/Ap
Tungsten disulfide	12138-09-9	Yes	None.	None.	No	N/Ap
Zinc dialkyldithiophosphate	68649-42-3	Yes	None.	None.	No	N/Ap

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:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
1-Decene, homopolymer, hydrogenated	68037-01-4	No	N/Ap	No	No	No	No	No	No
Tungsten disulfide	12138-09-9	No	N/Ap	Yes	No	Yes	No	No	No
Zinc dialkyldithiophosphate	68649-42-3	No	N/Ap	No	No	No	No	No	No

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:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECS</u>	<u>New Zealand IOC</u>
1-Decene, homopolymer, hydrogenated	68037-01-4	500-183-1	Present	Present	(6)-1109; (6)-1470	KE-09505	Present	May be used as a single component chemical under an appropriate group standard.
Tungsten disulfide	12138-09-9	235-243-3	Present	Not listed	(1)-1179	KE-35009	Present	Not listed
Zinc dialkyldithiophosphate	68649-42-3	272-028-3	Present	Present	(2)-2946	KE-28667	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
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
KECI: 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
 RI: Rhode Island
 RTECS: 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
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 TSCA: Toxic Substance Control Act
 WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.
- 2. International Agency for Research on Cancer Monographs, searched 2017.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2017 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - March 2015 version.
- 6. California Proposition 65 List - December 15, 2017 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2017.

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Other special considerations for handling

- : Provide adequate information, instruction and training for operators.

<p>Prepared for: King Cycle Group, Inc. DBA Chris King Precision Components 2801 NW Nela Street Portland, OR 97210 U.S.A. Telephone: +1 (503) 972-4050 Direct all enquiries to: Chris King Precision Components</p>	
<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

DISCLAIMER

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