

THB023 Page 1 of 12

SDS Preparation Date (dd/mm/yyyy): 11/01/2018

# 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** RingDrive<sup>™</sup> Lubricant 2.0 / RingDrive<sup>™</sup> Lube 2.0 Product Code(s) : THB023-RingDrive<sup>™</sup> Lube 2.0 1.2 Relevant identified uses of the substance or mixture and uses advised against : Lubricating RingDrive<sup>™</sup> engagement mechanisms on bicycle hubs made by Chris King Precision Components. 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 **1.4 Emergency Telephone Number** 

: +1 (703) 527-3887 (Chemtrec - U.S.)

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Liquid - amber / grey. 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.

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.

Precautionary statements:

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



RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0

THB023

### SDS Preparation Date (dd/mm/yyyy): 11/01/2018

Page 2 of 12

# SAFETY DATA SHEET

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

#### 2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. 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, 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: Multi-component oil; Lubricating powder

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	CLP Classification
1-Decene, homopolymer, hydrogenated	68037-01-4	500-183-1	9.0 - 20.0	Asp. Tox. 1; H304 (supplier)
Tungsten disulfide	12138-09-9	235-243-3	0.5 - 1.5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (supplier)
Zinc dialkyldithiophosphate	68649-42-3	272-028-3	0.1 - < 1.0	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411 (self classified)

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	: 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	<ul> <li>For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention.</li> </ul>
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.



THB023 Page 3 of 12

## SDS Preparation Date (dd/mm/yyyy): 11/01/2018

# SAFETY DATA SHEET

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

#### 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 t	he substance or mixture
:	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. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Sulphur oxides; Aldehydes; Metal oxides; Other unidentified organic compounds.
5.3 Advice for firefighters	
Protective equipment for fire-fight	nters
:	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 RE	LEASE MEASURES
6.1 Personal precautions, protect	ive equipment and emergency procedures
:	All persons dealing with the clean-up should wear the appropriate personal protective

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

2

: 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.



THB023

# SDS Preparation Date (dd/mm/yyyy): 11/01/2018

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 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.

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

: 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. Store away from incompatible materials (see Section 10 of the SDS).

### 7.3 Specific end use(s) : Lubricant

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

Expos	ure L	imits:

Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>
1-Decene, homopolymer, hyd	rogenated		
	None known.	European Union (OEL)	None.
Fungsten disulfide			
	5 mg/m³ (TWA)	Finland (OEL)	(as Tungsten, insoluble compounds)
	5 mg/m³ (TWA)	Poland (OEL)	(dust and fume) (as Tungsten)
	5 mg/m³ (TWA) 10 mg/m³ (STEL)	Spain (OEL)	(as Tungsten, insoluble compounds)
	5 mg/m³ (TWA) 10 mg/m³ (STEL)	The United Kingdom (WELs)	(as Tungsten, insoluble compounds)
Zinc dialkyldithiophosphate			
	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.



THB023

## SDS Preparation Date (dd/mm/yyyy): 11/01/2018

Page 5 of 12

# SAFETY DATA SHEET

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

### 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 equipme	nt			
	:	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 conside	ratio	ons		
	:	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		Liquid - amber / grey		
Odour				
	•			
Odour threshold	-	No information available.		
рН	:	Not applicable.		
Flash point	:	> 200°C		
Flashpoint (Method)	:	ASTM D92		
Lower flammable limit (%	by	vol.)		
	:	0.9%		
Upper flammable limit (% I	by '	vol.)		
	:	7.0%		
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 bo		iy lange		
	:	No information available.		
Melting/Freezing point	:	No information available.		



RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0

THB023 Page 6 of 12

### SDS Preparation Date (dd/mm/yyyy): 11/01/2018

## SAFETY DATA SHEET

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

Relative density	:	0.86
Solubility in water	:	Negligible
Other solubility(ies)	:	No information available.
Vapour pressure	:	< 0.013 kPa @ 20°C
Vapour density	:	> 2 (Air = 1.0)
Partition coefficient: n-octanol/water		
	:	No information available.
Viscosity	:	63.2 mm <sup>2</sup> /sec @ 40°C
Evaporation rate (BuAe = 2	1)	
	:	No information available.

### 9.2 Other Information

Volatiles (% by weight)	:	Not applicable.		
Volatile organic Compounds (VOC's)				
		No information available		

: No information available.

Other physical/chemical comments

: Pour point: - 36°C

## SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	:	Not normally reactive.
10.2 Chemical stability	:	Stable under normal conditions.
10.3 Possibility of hazardo	us	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 material	s	
	:	Strong oxidizing agents; Strong acids
10.6 Hazardous decompos	itio	on products
	:	None known.

In the event of fire the following can be released: Carbon oxides; Sulphur oxides; Aldehydes; 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/irrita	tion
	<ul> <li>According to the classification criteria of the European Union, the product is not considered as being an eye irritant.</li> </ul>
Respiratory or skin sensit	isation
	: 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.



THB023

### SDS Preparation Date (dd/mm/yyyy): 11/01/2018

Page 7 of 12

## SAFETY DATA SHEET

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

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.

	LC₅₀ (4hr)	LD50		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
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)	

	Routes of exposure Effects of acute exposure	:	Eye contact; Skin contact Ingestion; Inhalation <i>Inhalation:</i> If product is heated, inhalation of fumes may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties.	
			<i>Skin contact:</i> Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.	
			<i>Eye contact:</i> 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 Ef			
		:	Repeated exposure may cause skin dryness or cracking.	
	Other important hazards	:	None known or reported by the manufacturer.	

### SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : Not classified for hazards to the environment. 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.



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

### RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0 SDS Preparation Date (dd/mm/yyyy): 11/01/2018

THB023

#### Page 8 of 12

# SAFETY DATA SHEET

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

#### Ecotoxicity data:

Ingredients	040.14	Toxicity to Fish		
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
1-Decene, homopolymer, hydrogenated	68037-01-4	> 1000 mg/L (Rainbow trout)	No information available.	None.
Tungsten disulfide	12138-09-9	No information available.	No information available.	None.
Zinc dialkyldithiophosphate	68649-42-3	No information available.	No information available.	None.

Ingredients	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	No information available.	No information available.	None.
Zinc dialkyldithiophosphate	68649-42-3	1 - 1.5 mg/L (Daphnia magna)	No information available.	None.

Ingredients	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	No information available.	No information available.	None.
Zinc dialkyldithiophosphate	68649-42-3	1 - 5 mg/L/96hr (Green algae)	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: 1-Decene, homopolymer, hydrogenated; Tungsten disulfide; Zinc dialkyl dithiophosphate.

#### 12.3 Bioaccumulation potential

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

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
1-Decene, homopolymer, hydrogenated (CAS 68037-01-4)	> 6.5	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).



RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0

THB023

#### SDS Preparation Date (dd/mm/yyyy): 11/01/2018

Page 9 of 12

# SAFETY DATA SHEET

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

#### 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

Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label	
ADR/RID	None.	Not regulated	Not regulated	None	$\bigotimes$	
EU ADR/RID Classification Code	Not applicable		1			
EU ADR / RID Hazard Identification Number	Not applicable	·				
ADR/RID Additional information	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	$\bigotimes$	
ICAO/IATA Additional information	None.					
IMDG	None.	Not regulated.	Not regulated	None	$\bigotimes$	
IMDG Additional information	None.	!	1		-	

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. Keep away from flames and sparks.



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RingDrive™ Lubricant 2.0 / RingDrive™ Lube 2.0

THB023

#### SDS Preparation Date (dd/mm/yyyy): 11/01/2018

Page 10 of 12

# SAFETY DATA SHEET

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

#### 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:

1-Decene, homopolymer, hydrogenated (CAS # 68037-01-4)

Tungsten disulfide (CAS # 12138-09-9)

Zinc dialkyl dithiophosphate (CAS # 68649-42-3)

*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.



SDS Preparation Date (dd/mm/yyyy): 11/01/2018

THB023

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	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>CAS: Chemical Abstract Services</li> <li>CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</li> <li>EC: European Community</li> <li>EC50: Effective Concentration 50%</li> <li>ECHA: European Chemicals Agency</li> <li>EC: European Economic Community</li> <li>EINECS: European Inventory of Existing Commercial chemical Substances</li> <li>EN: European Standard</li> <li>EU: European Union</li> <li>HSDB: Hazardous Substances Data Bank</li> <li>IATA: International Air Transport Association</li> <li>IBC: Intermediate Bulk Container</li> <li>ICAO: International Civil Aviation Organisation</li> <li>IMDG: International Maritime Dangerous Goods</li> <li>Inh: Inhalation</li> <li>LC: Lethal Concentration</li> <li>LD: Lethal Dose</li> <li>NOEC: No observable effect concentration</li> <li>OECD: Organisation for Economic Co-operation and Development</li> <li>OECD: Safety Data Sheet</li> <li>Ster Suft-Contained Breathing Apparatus</li> <li>SDS: Safety Data Sheet</li> <li>STEL: Short Term Exposure Limit</li> <li>TWA: Time Weighted Average</li> <li>WEL: Workplace Exposure Limit</li> </ul>				
Information Source	<ol> <li>Material Safety Data Sheet from manufacturer.</li> <li>Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2018 (Chempendium, RTECs, HSDB, INCHEM).</li> <li>European Chemicals Agency, Classification Legislation, 2018.</li> <li>OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.</li> </ol>				
Preparation Date (dd/mm/yyyy)					
	<ul> <li>H304 - May be fatal if swallowed and enters airways.</li> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>				
Other special considerations for handling					

: Provide adequate information, instruction and training for operators.



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RingDrive<sup>™</sup> Lubricant 2.0 / RingDrive<sup>™</sup> Lube 2.0

THB023

# SDS Preparation Date (dd/mm/yyyy): 11/01/2018

Page 12 of 12

# SAFETY DATA SHEET

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



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