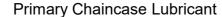
## **SAFETY DATA SHEET**





### **Section 1. Identification**

Product identifier : Primary Chaincase Lubricant

Product code : 301830150160

Other means of : Not available.
identification

Product type : Liquid.

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

Identified uses	
onsumer products: Lubricating Oil	
Uses advised against	Reason

Supplier's details : Calumet Branded Products, LLC

2780 Waterfront Pkwy E. Drive Suite 200

Indianapolis, IN 46214

USA

Technical Services:317-328-5660

24hr. CHEMTREC 1-800-424-9300 / : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

International 1-703-527-3887

#### Section 2. Hazard identification

Classification of the : AQUATIC HAZARD (ACUTE) - Category 3 substance or mixture : AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS label elements** 

Signal word : No signal word.

**Hazard statements**: Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

**Prevention**: Avoid release to the environment.

Response : Not applicable.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Supplemental label : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

**elements** aquatic environment: 4.4%

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Not available.
identification

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# Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	Baseoil - unspecified; Distillates, petroleum, hydrotreated heavy paraffinic; Mineral oil, petroleum distillates, hydrotreated heavy paraffinic; Distillates (petroleum), hydro-treated heavy paraffinic; Paraffin oil; HYDROTREATED HEAVY PARAFFINIC DISTILLATE; DISTILLATES (PETROLEUM) HYDROFVLD; Distillates (petroleum), hydrotreated heavy paraffinic, Baseoil - unspecified	≥80	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Baseoil - unspecified; Distillates, petroleum, solvent dewaxed heavy paraffinic; Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic; Paraffin oil; Distillates, petroleum, solvent-dewaxed heavy paraffinic; Distillate (Pet.) solvent-dewaxed heavy paraffinic; Solvent REFINED PARAFFINIC MINERAL OIL; OILS, PARAFFINIC, HEAVY, SOLVENT DEWAXED; Solvent dewaxed heavy paraffinic petroleum oil; PARAFFINIC PETROLEUM DISTILLATES; Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified	≥5 - ≤10	64742-65-0
Distillates (petroleum), solvent-dewaxed light paraffinic	Baseoil - unspecified; Distillates, petroleum, solvent dewaxed light paraffinic; Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic; Solvent-dewaxed light paraffinic distillates (petroleum); Distillate (petroleum), solvent dewaxed light paraffinic distillate; Distillates, petroleum, solvent-dewaxed light paraffinic; Distillates (petroleum), solvent dewaxed light paraffinic; Distillates (petroleum), solvent-dewaxed light paraffinic, Baseoil - unspecified; Petroleum distillates, solvent dewaxed light paraffinic	≥1 - ≤5	64742-56-9
Distillates (petroleum), hydrotreated light paraffinic	Baseoil - unspecified; Distillates, petroleum, hydrotreated light paraffinic; Mineral oil, petroleum distillates, hydrotreated light paraffinic; Mineral oil, petroleum distillates, hydrotreated (mild) light paraffinic; Distillates (petroleum), hydro-treated light paraffinic; Paraffin oil; DISTILLATES (PETROLEUM) HYDROTREATED LIGHT PARAFFINIC; DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; ALIPHATIC HYDROCARBON, SULFURIZED;	≥1 - ≤5	64742-55-8

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## Section 3. Composition/information on ingredients

<u> </u>			
	Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified		
Distillates (petroleum), hydrotreated heavy naphthenic	Baseoil - unspecified; Distillates, petroleum, hydrotreated heavy naphthenic; Hydrotreated heavy naphthenic distillate, solvent extract, petroleum; Mineral oil, petroleum distillates, hydrotreated heavy naphthenic; Mineral oil, petroleum distillates, hydrotreated (severe) heavy naphthenic; Distillates (petroleum), hydro-treated heavy naphthenic; Hydrotreated heavy naphthenic distillate solvent extract (petroleum); OILS, MINERAL, HEAVY NAPHTHENIC, HYDROTREATED; OILS, NAPHTHENIC, HYDROGENATED; SEVERELY SOLVENT REFINED HEAVY PARAFFINIC DISTILLATES; HYDROTREATED LIGHT PETROLEUM DISTILLATE	≥1 - ≤5	64742-52-5
zinc bis(dipentyldithiocarbamate)	Zinc, bis(N,N-dipentylcarbamodithioatokappa.S,.kappa.S')-, (T-4)-; Zinc, bis (dipentylcarbamodithioato-S,S')-, (ß-4)-; Zinc, bis (dipentylcarbamodithioato-S,S')-, (T-4)-; Zinc, bis (dipentylcarbamodithioatokappa.S,.kappa.S')-, (T-4)-; Zinc N-diamyldithiocarbamate; BIS (DIPENTYLCARBAMODITHIOATO-S,S')-ZINC; ZINC, BIS (DIPENTYLCARBAMODITHIOATE S,S); ZINC,BIS (DIPENTYLCARBAMO DITHIONATE S,S); Zinc,bis (dipentylcarbamodithioatoS,S'); ZINC DIAMYLDITHIOCARBAMATE	≥1 - ≤5	15337-18-5
Amines, C12-14-tert-alkyl, compds. with 2(3H)-benzothiazolethione	Amines, C12-14-tert-alkyl, compounds with 2(3H)-benzothiazolethione; (C12-14) tert-Alkylamines, compound with 2(3H)-benzothiazolethione; C12-14-tert-Alkylamines, compd. with 2(3H)-benzothiazolethione; tert-Alkyl (C=12-14) amines compds. with 2-(3H) benzothiazolethione; AMINES, C12-14 TERT ALKYL, COMPOUNDS WITH 2(3-H) BENZOTHIAZOLETHION	≥0.1 - ≤1	68911-68-2

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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#### Section 4. First-aid measures

#### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Fush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting

unless directed to do so by medical personnel.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: Do not use water jet.

# Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

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## Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	CA Alberta Provincial (Canada, 6/2018). [Oil] 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA Quebec Provincial (Canada, 6/2021). [Mineral oil (mist)] TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist
Distillates (petroleum), solvent- dewaxed heavy paraffinic	CA Alberta Provincial (Canada, 6/2018). [Oil] 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA Quebec Provincial (Canada, 6/2021). [Mineral oil (mist)] TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist
Distillates (petroleum), solvent- dewaxed light paraffinic	CA Alberta Provincial (Canada, 6/2018). [Oil] 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA Quebec Provincial (Canada, 6/2021). [Mineral oil (mist)] TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist
Distillates (petroleum), hydrotreated light paraffinic	CA Alberta Provincial (Canada, 6/2018). [Oil] 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA Quebec Provincial (Canada, 6/2021). [Mineral oil (mist)] TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist
Distillates (petroleum), hydrotreated heavy naphthenic	CA Alberta Provincial (Canada, 6/2018). [Oil] 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA Quebec Provincial (Canada, 6/2021). [Mineral oil (mist)] TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist

#### **Biological exposure indices**

None known.

# Appropriate engineering controls

# **Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**

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## Section 8. Exposure controls/personal protection

**Hand protection** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.
Color : Red.

Odor : Characteristic.
Odor threshold : Not available.

PH : Not available.

Melting point/freezing point : Not available.

Boiling point, initial boiling : Not available.

point, and boiling range

: Open cup: 232.22°C (450°F) [Cleveland]

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not available.

Vapor pressure

limit/flammability limit

Flash point

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			

Relative vapor density : Not available.

Relative density : 0.8691

Solubility(ies) : Media Result

Old water Not soluble Not soluble

Solubility in water : Not available.

Partition coefficient: n- : Not applicable.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 57.59 mm²/s (57.59 cSt)

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# Section 9. Physical and chemical properties and safety characteristics

Flow time (ISO 2431) : Not available.

Pour point : -45°C (-49°F)

**Particle characteristics** 

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
istillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	5.7 mg/l	4 hours
, , , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), solvent-dewaxed light paraffinic	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated heavy naphthenic	LC50 Inhalation Dusts and mists	Rat	5.7 mg/l	4 hours
·	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
zinc bis (dipentyldithiocarbamate)	LD50 Dermal	Rabbit	>16000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

#### **Irritation/Corrosion**

Not available.

#### **Sensitization**

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## Section 11. Toxicological information

3	Route of exposure	Species	Result
☑nc bis (dipentyldithiocarbamate)	skin	Mouse	Not sensitizing
Amines, C12-14-tert-alkyl, compds. with 2(3H)-benzothiazolethione	skin	Guinea pig	Sensitizing

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
☑nc bis (dipentyldithiocarbamate)	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 487 <i>In vitro</i> Micronucleus Test	Experiment: In vitro Subject: Mammalian-Human	Negative

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	IARC	NTP	ACGIH
Distillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), solvent-dewaxed light paraffinic Distillates (petroleum), hydrotreated light paraffinic	- - -	- - -	A4 A4 A4 A4
Distillates (petroleum), hydrotreated heavy naphthenic	-	-	A4

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
☑nc bis (dipentyldithiocarbamate)	Equivocal	Equivocal	Equivocal		Oral: 250 mg/kg	-

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name	Result
7,	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

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## Section 11. Toxicological information

Skin contact: No specific data.Ingestion: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Frimary Chaincase Lubricant	215533.2	2562.7	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	N/A	2500	N/A	N/A	5.7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/A	2500	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed light paraffinic	N/A	2500	N/A	N/A	N/A
Distillates (petroleum), hydrotreated light paraffinic	N/A	2500	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy naphthenic	N/A	2500	N/A	N/A	5.7
zinc bis(dipentyldithiocarbamate)	2500	N/A	N/A	N/A	N/A

## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure	
istillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Daphnia	48 hours	
	Acute IC50 >100 mg/l	Algae	72 hours	
	Acute LC50 >100 mg/l	Fish	96 hours	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EC50 >100 mg/l	Algae	72 hours	
·	Acute EC50 >100 mg/l	Daphnia	48 hours	
	Acute LC50 >100 mg/l	Fish	96 hours	
	Chronic NOEL >1 mg/l	Daphnia	21 days	
Distillates (petroleum), hydrotreated light paraffinic	Acute EC50 >100 mg/l	Algae	72 hours	
	Acute EC50 >100 mg/l	Daphnia	48 hours	

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Primary Chaincase Lubricant

# Section 12. Ecological information

	Acute LC50 >100 mg/l	Fish	96 hours
Distillates (petroleum), hydrotreated heavy naphthenic	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 >100 mg/l	Crustaceans	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Amines, C12-14-tert-alkyl, compds. with 2(3H)-benzothiazolethione	Acute EC50 0.44 mg/l	Algae	72 hours
	Acute EC50 2.5 mg/l	Daphnia	48 hours
	Acute EC50 1.3 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
☑nc bis (dipentyldithiocarbamate)	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	21 % - Not readily - 28 days	-	-
Amines, C12-14-tert-alkyl, compds. with 2(3H)-benzothiazolethione	OECD 301D Ready Biodegradability - Closed Bottle Test	22 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum),	-	-	Not readily
hydrotreated heavy paraffinic			
Distillates (petroleum),	-	-	Inherent
hydrotreated light paraffinic			
Distillates (petroleum),	-	-	Inherent
hydrotreated heavy			
naphthenic			
zinc bis	-	-	Not readily
(dipentyldithiocarbamate)			
Amines, C12-14-tert-alkyl,	-	-	Not readily
compds. with 2(3H)-			
benzothiazolethione			

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Distillates (petroleum),	>6	-	high
hydrotreated heavy paraffinic	2 to 6		high
Distillates (petroleum), solvent-dewaxed heavy	2 10 0	-	high
paraffinic			
Distillates (petroleum), hydrotreated light paraffinic	>6	-	high

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

## Section 15. Regulatory information

**Canadian lists** 

**Canadian NPRI** : The following components are listed: zinc (and its compounds)

**CEPA Toxic substances** : None of the components are listed.

**Inventory list** 

**Australia** : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted.

**Eurasian Economic Union** : Russian Federation inventory: All components are listed or exempted.

**New Zealand** : All components are listed or exempted. **Philippines**  All components are listed or exempted. : All components are listed or exempted. Republic of Korea **Taiwan** : All components are listed or exempted.

**Thailand** : Not determined. Not determined. **Turkey** 

**United States** : All components are active or exempted. **Viet Nam** : All components are listed or exempted.

## Section 16. Other information

**History** 

Date of issue/Date of : 03/06/2023

revision

Date of previous issue : 05/27/2020

**Version** : 2

Date of issue/Date of revision : 03/06/2023 : 05/27/2020 12/13 Version : 2 Date of previous issue

Primary Chaincase Lubricant

### Section 16. Other information

#### Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
QUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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