

### 20190 MOTORBIKE 4T 10W-40 BASIC STREET 1L

### Liqui Moly GmbH

Chemwatch: **64-3516** Version No: **2.1.1.1** 

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

### Chemwatch Hazard Alert Code: 1

Issue Date: **15/07/2016**Print Date: **12/12/2016**S.GHS.USA.EN

### **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	20190 MOTORBIKE 4T 10W-40 BASIC STREET 1L
Synonyms	Item No: 20190
Other means of identification	Not Available

### Recommended use of the chemical and restrictions on use

Motor oil.

Relevant identified uses

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Liqui Moly GmbH
Address	Jerg-Wieland-Strasse 4 Ulm D-89081 Germany
Telephone	+49 731 1420 0
Fax	+49 731 1420 82
Website	Not Available
Email	Not Available

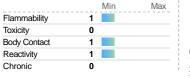
### Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	+1800 535 5053 (US & Canada)
Other emergency telephone numbers	+1 352 323 3500 (International)

### **SECTION 2 HAZARD(S) IDENTIFICATION**

### Classification of the substance or mixture

### CHEMWATCH HAZARD RATINGS







Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Eye Irritation Category 2B
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	WARNING
Hazard statement(s)	

### Hazard statement(s)

H320 Causes eye irritation

### Hazard(s) not otherwise specified

Not Applicable

### Precautionary statement(s) Prevention

P264 Wash all exposed external body areas thoroughly after handling.

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### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

Not Applicable

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
Not avail.	1-<5	mineral oil
		contains one or more of the following;
64742-54-7.		paraffinic distillate, heavy, hydrotreated (severe)
64742-65-0.		paraffinic distillate, heavy, solvent-dewaxed (severe)
64742-55-8.		paraffinic distillate, light, hydrotreated (severe)
64742-56-9.		paraffinic distillate, light, solvent-dewaxed (severe)

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### **SECTION 4 FIRST-AID MEASURES**

### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If furnes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

See Section 11

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

Treat symptomatically.

### **SECTION 5 FIRE-FIGHTING MEASURES**

# Extinguishing media

- ► Foam.
- ▶ Dry chemical powder.
- ► BCF (where regulations permit).
- ▶ Carbon dioxide.

### Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### Special protective equipment and precautions for fire-fighters

# Fire Fighting Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO).

Combustion products include:

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carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills

- ► Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ► Control personal contact with the substance, by using protective equipment.

Major Spills

Moderate hazard.

- ▶ Clear area of personnel and move upwind.
- ► Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling

Safe handling	

- ▶ Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- ▶ Prevent concentration in hollows and sumps.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

Other information

- Store in original containers.Keep containers securely sealed.
- ▶ No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area.

### Conditions for safe storage, including any incompatibilities

Suitable container	
--------------------	--

- ► Metal can or drum
- Packaging as recommended by manufacturer.
   Check all containers are clearly labelled and free from leaks.
- Storage incompatibility 

  Avoid reaction with oxidising agents

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### Control parameters

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	mineral oil	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	mineral oil	Mineral oil, excluding metal working fluids - Pure, highly and severely refined / Mineral oil, excluding metal working fluids - Poorly and mildly refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	mineral oil	Heavy mineral oil mist, Paraffin oil mist, White mineral oil mist	5 mg/m3	10 mg/m3	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
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US OSHA Permissible Exposure Levels (PELs) - Table Z1	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffinic distillate, heavy, solvent-dewaxed (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined / Mineral oil, excluding metal working fluids - Poorly and mildly refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr

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### **EMERGENCY LIMITS**

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
paraffinic distillate, heavy, solvent-dewaxed (severe)	Pump oil; (petroleum distillates, solvent de-waxed heavy paraffinic		140 mg/m3	1,500 mg/m3	8,900 mg/m3
Ingredient	Original IDI H	Revised	IDI H		

Ingredient	Original IDLH	Revised IDLH
mineral oil	Not Available	Not Available
paraffinic distillate, heavy, hydrotreated (severe)	Not Available	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe)	Not Available	Not Available
paraffinic distillate, light, hydrotreated (severe)	Not Available	Not Available
paraffinic distillate, light, solvent-dewaxed (severe)	Not Available	Not Available

### **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Personal protection









Eye and face protection

- ► Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

## Skin protection

## See Hand protection below

Wear chemical protective gloves, e.g. PVC.

### Hands/feet protection

• Wear safety footwear or safety gumboots, e.g. Rubber
The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

### Body protection

See Other protection below

### Other protection

- Overalls.
- P.V.C. apron.Barrier cream.
- Thermal hazards
- Not Available

### Respiratory protection

### Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator	
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2	

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up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

<sup>^ -</sup> Full-face

 $A(All\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ B3 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur\ dioxide(SO2),\ G = Agricultural\ chemicals,\ K = Ammonia(NH3),\ Hg = Mercury,\ NO = Oxides\ of\ nitrogen,\ MB = Methyl\ bromide,\ AX = Low\ boiling\ point\ organic\ compounds(below\ 65\ degC)$ 

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Brown colour liquid with characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.87
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	96.7
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	230	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
20190 MOTORBIKE 4T	TOXICITY	IRRITATION	
10W-40 BASIC STREET 1L	Not Available	Not Available	
	тохісіту	IRRITATION	
mineral oil	Not Available	Not Available	

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	TOVICITY	IDDITATION
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available
	Inhalation (rat) LC50: >3.9 mg/l/4hr[1]	
	Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup>	
paraffinic distillate, heavy, hydrotreated (severe)	Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup>	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
		1
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available
	Inhalation (rat) LC50: >3.9 mg/l/4hr[1]	1
	Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup>	1
paraffinic distillate, heavy,	Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup>	
solvent-dewaxed (severe)	Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup>	
	Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup>	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available
paraffinic distillate, light, hydrotreated (severe)	Inhalation (rat) LC50: 3.9 mg/L/4hr <sup>[2]</sup>	1
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
	(,	T. Control of the Con
	TOXICITY	IRRITATION
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paraffinic distillate, light, solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup>	
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solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available
, , ,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup>	Not Available
solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2	Not Available
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solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chem crude.  A small but definite risk of occupational skin cancer occurs in workers exposed	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been
solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chemicale.	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene).
solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.8 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chem crude.  A small but definite risk of occupational skin cancer occurs in workers exposed attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (tr	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene).
Legend:  MINERAL OIL  PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.8 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chem crude.  A small but definite risk of occupational skin cancer occurs in workers exposed attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (tr	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene).
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Legend:  MINERAL OIL  PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)  PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chem crude.  A small but definite risk of occupational skin cancer occurs in workers exposed attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typetroleum oils which are solvent refined/extracted or severely hydrotreated, cordinated to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typetroleum oils which are solvent refined/extracted or severely hydrotreated, cordinated to the presence of a specific distillate base oil is inversely related to the second to the	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene). Itain very low concentrations of both.
Legend:  MINERAL OIL  PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)  PARAFFINIC DISTILLATE,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity a extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chem crude.  A small but definite risk of occupational skin cancer occurs in workers exposed attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (the petroleum oils which are solvent refined/extracted or severely hydrotreated, cor  * Q8 MSDS  The materials included in the Lubricating Base Oils category are related from	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene). Itain very low concentrations of both.
Legend:  MINERAL OIL  PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)  PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.8 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity acutracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chemical crude.  A small but definite risk of occupational skin cancer occurs in workers exposed attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typetroleum oils which are solvent refined/extracted or severely hydrotreated, cordinated to the presence of the undesirable components are inversely related to the set The adverse effects of these materials are associated with undesirable cordinated to Distillate base oils receiving the same degree or extent of processing will	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene). Itain very low concentrations of both.  both process and physical-chemical perspectives; everity or extent of processing the oil has undergone, since: imponents, and ree of processing; have similar toxicities;
Legend:  MINERAL OIL  PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)  PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.8 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 9.6 mg/l/4hr <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances  Toxicity and Irritation data for petroleum-based mineral oils are related to chem crude.  A small but definite risk of occupational skin cancer occurs in workers exposed attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typetroleum oils which are solvent refined/extracted or severely hydrotreated, cor  * Q8 MSDS  The materials included in the Lubricating Base Oils category are related from The potential toxicity of a specific distillate base oil is inversely related to the se  * The adverse effects of these materials are associated with undesirable cor  * The levels of the undesirable components are inversely related to the deg	Not Available  2.* Value obtained from manufacturer's SDS. Unless otherwise specified data  ical components and vary as does the composition and source of the original to persistent skin contamination by oils over a period of years. This risk has been ypified by benz[a]pyrene). Itain very low concentrations of both.  both process and physical-chemical perspectives; everity or extent of processing the oil has undergone, since: Imponents, and Itail receives.

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(SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)	have shown the highest potential carcinogenic and mutagenic activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components.		
PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)	For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative.		
PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)	The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.		
PARAFFINIC DISTILLATE, HEAVY, SOLVENT- DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)	No significant acute toxicological data identified in literature search.		
Acute Toxicity	○ Carcinogenicity	0	
Skin Irritation/Corrosion	Reproductivity		
Serious Eye Damage/Irritation	✓ STOT - Single Exposure		
Respiratory or Skin sensitisation	STOT - Repeated Exposure		
Mutagenicity	○ Aspiration Hazard	0	
	Lorand: V	- Data available but does not fill the criteria for classification	

Data available but does not fill the chiefla for the chiefla for

## **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
paraffinic distillate, heavy, hydrotreated (severe)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, heavy, hydrotreated (severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
paraffinic distillate, heavy, hydrotreated (severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
paraffinic distillate, heavy, hydrotreated (severe)	NOEC	504	Crustacea	>1mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (severe)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (severe)	NOEC	504	Crustacea	>1mg/L	1
paraffinic distillate, light, hydrotreated (severe)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, light, hydrotreated (severe)	EC50	48	Crustacea	>10000mg/L	1
paraffinic distillate, light, hydrotreated (severe)	NOEC	504	Crustacea	>1mg/L	1

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paraffinic distillate, light, solvent-dewaxed (severe)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, light, solvent-dewaxed (severe)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, light, solvent-dewaxed (severe)	NOEC	504	Crustacea	>1mg/L	1
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

### DO NOT discharge into sewer or waterways

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging Where in doubt contact the responsible authority. disposal
  - Recycle wherever possible or consult manufacturer for recycling options.
  - Consult State Land Waste Authority for disposal.
  - Bury or incinerate residue at an approved site.
  - Recycle containers if possible, or dispose of in an authorised landfill.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

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

### MINERAL OIL(NOT AVAIL.) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants Monographs US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US - Alaska Limits for Air Contaminants Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Washington Permissible exposure limits of air contaminants US - California Proposition 65 - Carcinogens US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Hawaii Air Contaminant Limits US ACGIH Threshold Limit Values (TLV) US - Idaho - Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) - Carcinogens US - Michigan Exposure Limits for Air Contaminants US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens US - Minnesota Permissible Exposure Limits (PELs) US NIOSH Recommended Exposure Limits (RELs) US - Oregon Permissible Exposure Limits (Z-1) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Proposition 65 - Carcinogens	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Idaho - Limits for Air Contaminants	US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE)(64742-65-0.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Proposition 65 - Carcinogens	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Idaho - Limits for Air Contaminants	US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)(64742-55-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Proposition 65 - Carcinogens	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Idaho - Limits for Air Contaminants	US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)(64742-56-9.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants	
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants	
US - California Permissible Exposure Limits for Chemical Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants	
US - California Proposition 65 - Carcinogens	US ACGIH Threshold Limit Values (TLV)	
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens	
US - Idaho - Limits for Air Contaminants	US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens	
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)	
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1	
US - Oregon Permissible Exposure Limits (Z-1)	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk	
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for	
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	Chemicals Causing Reproductive Toxicity	
·	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	

### **Federal Regulations**

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

### State Regulations

### US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

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### 20190 MOTORBIKE 4T 10W-40 BASIC STREET 1L

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### US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Soots, tars, and mineral oils (untreated and mildly treated oils and used engine oils) Listed

National Inventory	Status
Australia - AICS	N (mineral oil)
Canada - DSL	N (mineral oil)
Canada - NDSL	N (paraffinic distillate, heavy, hydrotreated (severe); paraffinic distillate, light, solvent-dewaxed (severe); paraffinic distillate, heavy, solvent-dewaxed (severe); mineral oil; paraffinic distillate, light, hydrotreated (severe))
China - IECSC	N (mineral oil)
Europe - EINEC / ELINCS / NLP	N (mineral oil)
Japan - ENCS	N (paraffinic distillate, light, solvent-dewaxed (severe); paraffinic distillate, heavy, solvent-dewaxed (severe); mineral oil)
Korea - KECI	N (mineral oil)
New Zealand - NZIoC	N (mineral oil)
Philippines - PICCS	N (mineral oil)
USA - TSCA	N (mineral oil)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible\ Concentration-Short\ Term\ Exposure\ Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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