

# SAFETY DATA SHEET

Castrol Vecton Long Drain 5W-30 E6/E9

In accordance with Industrial Safety and Health Act

## Section 1. Chemical product and company identification

**Product name** Castrol Vecton Long Drain 5W-30 E6/E9  
**Code** 469833-BE02  
**SDS no.** 469833  
**Supplier** BP Korea Ltd.  
19F., 302, Teheran-ro, Gangnam-gu, Seoul, 06210  
Republic of Korea  
  
Tel: +82 -1577-1904

**EMERGENCY TELEPHONE NUMBER** Carechem: +65 3158 1074 (24/7)

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

**Use of the substance/mixture** Engine oils.  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

## Section 2. Hazards identification

**GHS Classification** Not classified.

### GHS label elements, including precautionary statements

**Signal word** No signal word.

**Hazard statements** No known significant effects or critical hazards.

### Precautionary statements

**Prevention** Not applicable.

**Response** Not applicable.

**Storage** Not applicable.

**Disposal** Not applicable.

**Other hazards which do not result in classification** Defatting to the skin.  
USED ENGINE OILS  
Used engine oil may contain hazardous components which have the potential to cause skin cancer.  
See Toxicological Information, section 11 of this Safety Data Sheet.

## Section 3. Composition/information on ingredients

**Substance/mixture** Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

### Hazardous ingredients

## Section 3. Composition/information on ingredients

Ingredient name	Synonym	CAS number	%
<p>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</p>	<p>Baseoil - unspecified; Lubricating oils, petroleum, C20-50, hydrotreated neutral oil based; Lubricating oils, petroleum, C20-50-hydrotreated neutral oil-based; Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based; Lubricating oils (petroleum), C20-50 hydrotreated neutral oil based; OILS, LUBRICATING (PETROLEUM) C20-50, HYDROTREATED NEUTRAL OIL-BASED; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, Baseoil - unspecified; Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based; Lubricating oils (petroleum), C20-C50, hydrotreated neutral oilbased</p>	72623-87-1	50
<p>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</p>	<p>Baseoil - unspecified; Lubricating oils, petroleum, C20-50, hydrotreated neutral oil based; Lubricating oils, petroleum, C20-50-hydrotreated neutral oil-based; Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based; Lubricating oils (petroleum), C20-50 hydrotreated neutral oil based; OILS, LUBRICATING (PETROLEUM) C20-50, HYDROTREATED NEUTRAL OIL-BASED; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, Baseoil - unspecified; Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based; Lubricating oils (petroleum), C20-C50, hydrotreated neutral oilbased</p>	72623-87-1	22.2
<p>Distillates (petroleum), solvent-dewaxed heavy paraffinic</p>	<p>Baseoil - unspecified; Distillates, petroleum,</p>	64742-65-0	5.5

## Section 3. Composition/information on ingredients

	<p>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</p>		
<p>Distillates (petroleum), hydrotreated heavy paraffinic</p>	<p>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</p>	<p>64742-54-7</p>	<p>5.4938</p>
<p>Distillates (petroleum), hydrotreated light paraffinic</p>	<p>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,</p>	<p>64742-55-8</p>	<p>5.4938</p>

## Section 3. Composition/information on ingredients

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	SULFURIZED; Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl) propionate; IRGANOX L 135; IRGANOX 1135; ALBETEC-4716; AN-1216; Z-72; VANLUBE BHC; SONGNOX 1135 LQ; ETHANOX 4716; Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters; Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7_9-branched alkyl esters	125643-61-0	2.60286
2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide	2,5-Furandione, polymer with 1-hexadecene, methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino) phenyl imide; 2,5-Furandione polymer with 1-hexadecene, methyloxirane polymer with oxirane bis(2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino) phenyl imide	873694-48-5	1.28439
Phenol, dodecyl-, branched	Dodecyl(branched chain) phenol; Monoalkyl(C12-35) phenol; Dodecylphenol, branched; Dodecyl phenol; Tetrapropenyl phenol; 4-(3,4,5-trimethylheptyl) phenol; Dodecylphenol, branched -	121158-58-5	0.020022

### Non-hazardous ingredients

Ingredient name	Synonym	CAS number	%
Trade secret.	Trade secret.	Trade secret.	2.4516
Trade secret.	Trade secret.	Trade secret.	1.2537
Trade secret.	Trade secret.	Trade secret.	0.31 - 0.93
Trade secret.	Trade secret.	Trade secret.	0.74682
Trade secret.	Trade secret.	Trade secret.	0.73059
Trade secret.	Trade secret.	Trade secret.	0.32994
Trade secret.	Trade secret.	Trade secret.	0.30033
Trade secret.	Trade secret.	Trade secret.	0.27136
Trade secret.	Trade secret.	Trade secret.	0.12 - 0.21
Trade secret.	Trade secret.	Trade secret.	0.16699

## Section 3. Composition/information on ingredients

Trade secret.	Trade secret.	Trade secret.	0.15506
Trade secret.	Trade secret.	Trade secret.	0.15144
Trade secret.	Trade secret.	Trade secret.	0.12439

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

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

## Section 4. First aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>	
<b>Specific treatments</b>	No specific treatment.
<b>Notes to physician</b>	Treatment should in general be symptomatic and directed to relieving any effects.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.

## Section 5. Firefighting measures

<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
<b>Not suitable</b>	Do not use water jet.
<b>Specific hazards arising from the chemical</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>Special protective actions for fire-fighters</b>	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

## Section 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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 spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
<b>Environmental precautions</b>	Avoid dispersal of spilt 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).
<b><u>Methods and material for containment and cleaning up</u></b>	
<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

### Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. 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. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### Not suitable

Prolonged exposure to elevated temperature.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>ACGIH TLV (United States). [Mineral Oil, pure, highly and severely refined]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy paraffinic	<b>ACGIH TLV (United States). [Mineral Oil, pure, highly and severely refined]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction
Distillates (petroleum), hydrotreated light paraffinic	<b>ACGIH TLV (United States). [Mineral Oil, pure, highly and severely refined]</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction

### Biological exposure indices

No exposure indices known.

Other ingredients including trade secret: not applicable

### Recommended monitoring procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## Section 8. Exposure controls/personal protection

### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

### Environmental exposure controls

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.

### Personal protective equipment

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

#### Eye protection

Safety glasses with side shields.

#### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

#### Skin protection

Use of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

#### 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.

## Section 9. Physical and chemical properties

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

### Appearance

#### Physical state

Liquid.

#### Colour

Amber. [Light]

#### Odour

Unfragranced

#### Odour threshold

Not available.

#### pH

Not applicable.

#### Melting/freezing point

Not available.

#### Boiling point, initial boiling point, and boiling range

Not available.

#### Flash point

Closed cup: 206.5°C (403.7°F) [Pensky-Martens ASTM D 93]

Open cup: >205°C (>401°F) [Cleveland ASTM D 92]

#### Evaporation rate

Not available.

#### Flammability

Not available.

#### Lower and upper explosive (flammable) limits

Not available.

#### Vapour pressure

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<0.07501	<0.01	ASTM D 5191			
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			
Distillates (petroleum), hydrotreated light paraffinic	<0.07501	<0.01	ASTM D 5191			

### Solubility(ies)

Media	Result
water	Not soluble

#### Vapour density

Not available.

#### Relative density

Not available.

#### Density

<1000 kg/m<sup>3</sup> (<1 g/cm<sup>3</sup>) at 15°C

#### Partition coefficient: n-octanol/water

Not applicable.

#### Auto-ignition temperature

Ingredient name	°C	°F	Method
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	365	689	



## Section 9. Physical and chemical properties

<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Kinematic: 72.9 mm <sup>2</sup> /s (72.9 cSt) at 40°C Kinematic: 11.4 to 12.5 mm <sup>2</sup> /s (11.4 to 12.5 cSt) at 100°C
<b>Molecular weight</b>	Not applicable as it is a mixture
<b>Particle characteristics</b>	
<b>Median particle size</b>	Not applicable.

## Section 10. Stability and reactivity

<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
<b>Conditions to avoid</b>	Avoid all possible sources of ignition (spark or flame).
<b>Incompatible materials</b>	Reactive or incompatible with the following materials: oxidising materials.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Information on likely routes of exposure**     Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Acute toxicity

<b>Inhalation</b>	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	Defatting to the skin. May cause skin dryness and irritation.
<b>Eye contact</b>	No known significant effects or critical hazards.

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

<b>Inhalation</b>	No specific data.
<b>Ingestion</b>	No specific data.
<b>Skin</b>	Adverse symptoms may include the following: irritation dryness cracking
<b>Eyes</b>	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Product/ingredient name	Test	Species	Result	Exposure	Remarks
<input checked="" type="checkbox"/> Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	Rat	>5000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.

## Section 11. Toxicological information

Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours	substances. -
	LD50 Dermal	Rat	>2000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	Rabbit	>5000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours	Based on studies with similar substances.
	LD50 Dermal	Rabbit	>5000 mg/kg	-	Based on studies with similar substances.
	LD50 Oral	Rat	>5000 mg/kg	-	Based on studies with similar substances.
Phenol, dodecyl-, branched	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat	2100 mg/kg	-	-

### Irritation/Corrosion

Product/ingredient name	Test authority / Test number	Species	Route / Result	Conc.	Remarks	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD	405	Rabbit	Eyes - Severe irritant	-	Based on studies with similar substances.
	OECD	404	Rabbit	Skin - Non- irritant to skin.	-	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD	405	Rabbit	Eyes - Non- irritating to the eyes.	-	Based on studies with similar substances.
	-	-	Rabbit	Skin - Non- irritant to skin.	-	Based on studies with similar

## Section 11. Toxicological information

Distillates (petroleum), hydrotreated heavy paraffinic	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	substances. Based on studies with similar substances.
	OECD	404	Rabbit	Skin - Mild irritant	-	Based on studies with similar substances.
Distillates (petroleum), hydrotreated light paraffinic	OECD	405	Rabbit	Eyes - Non-irritating to the eyes.	-	Based on studies with similar substances.
	-	-	Rabbit	Skin - Non-irritant to skin.	-	Based on studies with similar substances.
Phenol, dodecyl-, branched	OECD	405	Rabbit	Eyes - Irritant	-	-
	OECD	404	Rabbit	Skin - Irritant	-	-

**Skin corrosion or irritation** Not available for product and all ingredients.

**Serious eye damage/eye irritation** Not available for product and all ingredients.

**Respiratory Irritation** Not available for product and all ingredients.

### **Sensitisation**

**Respiratory Sensitisation** Not available for product and all ingredients.

### **Skin Sensitisation**

Product/ingredient name	Route of exposure	Species	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
Distillates (petroleum), hydrotreated light paraffinic	skin	Guinea pig	Not sensitising	Based on studies with similar substances.
Phenol, dodecyl-, branched	skin	Guinea pig	Not sensitising	-

### **CMR - ISHA Article 42 Public Notice No 2016-41 Occupational Exposure Limits**

Product/ingredient name	CAS number	Classification
Not available for product and all ingredients.		

### **Carcinogenicity**

## Section 11. Toxicological information

Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	Mouse	Negative - Dermal - Unspecified	-	-	-	Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Mouse	Negative - Dermal - Unspecified	-	-	-	Based on studies with similar substances.

### Germ cell mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammal - species unspecified	Positive	Based on studies with similar substances.
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on studies with similar substances.
	473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on studies with similar substances.
	474 Mammalian	Experiment: In vivo Subject: Mammal - species unspecified	Negative	Based on studies

## Section 11. Toxicological information

	Erythrocyte Micronucleus Test						with similar substances.
Distillates (petroleum), hydrotreated light paraffinic	OECD 471 Bacterial Reverse Mutation Test		Subject: Mammal - species unspecified Experiment: In vitro	Negative			Based on studies with similar substances.
	OECD 473 In vitro Mammalian Chromosomal Aberration Test		Subject: Bacteria Experiment: In vitro	Negative			Based on studies with similar substances.
Phenol, dodecyl-, branched	471 Bacterial Reverse Mutation Test		Subject: Mammal - species unspecified Experiment: In vitro	Negative		-	
	476 In vitro Mammalian Cell Gene Mutation Test		Subject: Bacteria Experiment: In vitro	Negative		-	
	474 Mammalian Erythrocyte Micronucleus Test		Subject: Mammal - species unspecified Experiment: In vivo	Negative		-	
			Subject: Mammal - species unspecified				

### Reproductive toxicity

Product/ ingredient name	Test detail	Species	Exposure	Developmental toxin	Maternal toxicity	Fertility	Remarks
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 421	Rat	Oral -	Negative	Negative	Negative	Based on studies with similar substances.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 421	Rat	Oral -	Negative	Negative	Negative	Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 421	Rat	Oral -	Negative	Negative	Negative	Based on studies with similar substances.
Distillates (petroleum), hydrotreated light paraffinic	OECD 421	Rat	Oral -	Negative	Negative	Negative	Based on studies with similar substances.
Phenol, dodecyl-, branched	OECD 416	Rat	Oral -	Negative	Positive	Positive	-

### Teratogenicity

No known significant effects or critical hazards.

### Developmental effects

No known significant effects or critical hazards.

### Fertility effects

No known significant effects or critical hazards.

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Not available for product and all ingredients.

### Specific target organ toxicity (repeated exposure)

Not available for product and all ingredients.

### Potential chronic health effects

#### General

#### USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

#### Carcinogenicity

No known significant effects or critical hazards.

#### Mutagenicity

No known significant effects or critical hazards.

### Aspiration hazard

#### Name

#### Result

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ASPIRATION HAZARD - Category 1

#### Other information

Not available.

## Section 12. Ecological information

### Ecotoxicity

No known significant effects or critical hazards.

### Persistence/degradability

Not expected to be rapidly degradable.

### Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

### Other adverse effects

No known significant effects or critical hazards.

### Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimised 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.

### Disposal precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	IMDG	IATA
<b>A. UN number</b>	Not regulated.	Not regulated.
<b>B. UN proper shipping name</b>	-	-
<b>C. Transport hazard class(es)</b>	-	-
<b>D. Packing group</b>	-	-
<b>E. Environmental hazards</b>	No.	No.
<b>F. Additional information</b>	-	-

**Special precautions for user** Not available.

## Section 15. Regulatory information

### Regulation according to ISHA

**ISHA article 117 (Harmful substances prohibited from manufacture)** None of the components are listed.

**ISHA article 118 (Harmful substances requiring permission)** None of the components are listed.

### Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

- Distillates (petroleum), solvent-dewaxed heavy paraffinic
- Distillates (petroleum), hydrotreated heavy paraffinic
- Distillates (petroleum), hydrotreated light paraffinic

**ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)** None of the components are listed.

**ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)** None of the components are listed.

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-up)** The following components are listed: metal working fluids: oil mist, mineral

**Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)** None of the components are listed.

### Regulation according to Chemicals Control Act

## Section 15. Regulatory information

<a href="#">Article 20 Toxic Chemicals (K-Reach Article 20)</a>	Not applicable
<a href="#">Article 18 Prohibited (K-Reach Article 27)</a>	None of the components are listed.
<a href="#">Article 20 Restricted (K-Reach Article 27)</a>	None of the components are listed.
<a href="#">CCA Article 11 (TRI)</a>	None of the components are listed.
<a href="#">CCA Article 39 (Accident Precaution Chemicals)</a>	None of the components are listed.
<a href="#">Dangerous Materials Safety Management Act</a>	<b>Class:</b> Class 4 - Flammable Liquid <b>Item:</b> 6. Class 4 petroleum <b>Threshold:</b> 6000 L <b>Danger category:</b> III <b>Signal word:</b> Contact with sources of ignition prohibited
<a href="#">Wastes regulation</a>	Designated Waste

### [Regulation according to other foreign laws](#)

<a href="#">Australia inventory (AIIIC)</a>	All components are listed or exempted.
<a href="#">Canada inventory</a>	All components are listed or exempted.
<a href="#">China inventory (IECSC)</a>	At least one component is not listed.
<a href="#">REACH Status</a>	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
<a href="#">Japan inventory (CSCL)</a>	At least one component is not listed.
<a href="#">Korea inventory (KECI)</a>	At least one component is not listed.
<a href="#">Philippines inventory (PICCS)</a>	At least one component is not listed.
<a href="#">Taiwan inventory (TCSI)</a>	All components are listed or exempted.
<a href="#">United States inventory (TSCA 8b)</a>	All components are active or exempted.

## Section 16. Other information

### [History](#)

<a href="#">Source of Information</a>	Sources of key data used to compile the Safety Data Sheet: Hazard assessment review data, toxicological reviews, and product physical properties; component supplier hazard communication data; and other publically available resources.
<a href="#">Date first prepared</a>	01/03/2024
<a href="#">Number of revisions and date of last revision</a>	2 31/03/2025.
<a href="#">Prepared by</a>	Product Stewardship
<a href="#">Key to abbreviations</a>	AMP = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards. ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail CAS Number = Chemical Abstracts Service Registry Number HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk. ICAO = International Civil Aviation Organization.



## Section 16. Other information

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

TWA = Time weighted average

STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

TCCA = Toxic Chemical Control Act

GHS = Global Harmonized System

ISHA = Industrial Safety and Health Act

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

 Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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