

Section 1. Identification

GHS product identifier	Castrol CRB Turbomax 15W-40 CI-4/E7
Product code	469407-TH01
SDS #	469407
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.
Manufacturer	BP - Castrol (Thailand) Limited Samut Sakon Industrial Estate, 39/77-78 Moo 2 Rama II Road, Bangkachao Amphur Muang, Samut Sakorn 74000 Tel. +66 34 419666, Fax. +66 34 419666
Supplier	BP - Castrol (Thailand) Limited 3 Rajanakarn Building, 23rd Floor South Sathon Road Yannawa, Sathon Bangkok 10120 Tel. +66 02 6843555, Fax. +66 02 684 3646
EMERGENCY TELEPHONE NUMBER	Carechem: 001800 1 2066 6751 (tollfree, access from Thailand only)

Section 2. Hazards identification

GHS Classification	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
GHS label elements	
Signal word	No signal word.
Hazard statements	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	P273 - Avoid release to the environment.
Response	Not applicable.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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
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Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥75 - ≤90	CAS: 64742-54-7
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	CAS: 64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	CAS: 64742-65-0
Distillates (petroleum), hydrotreated light paraffinic	≤3	CAS: 64742-55-8
Distillates (petroleum), solvent-dewaxed light paraffinic	≤3	CAS: 64742-56-9
2,6-di-tert-butylphenol	≤0.3	CAS: 128-39-2

Section 3. Composition/information on ingredients

Alkylated phenol	≤0.1	CAS: 74499-35-7
O,O,O-triphenyl phosphorothioate	≤0.1	CAS: 597-82-0

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

Description of necessary first aid measures

Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects persist or are severe.
Skin contact	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.
Eye contact	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.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

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

Specific treatments	No specific treatment.
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Use foam or all-purpose dry chemical to extinguish.
Unsuitable extinguishing media	Do not use water jet.

Specific hazards arising from the chemical	Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 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.
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Hazardous thermal decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
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Special protective actions for fire-fighters	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.
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Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Contact 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
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Section 6. Accidental release measures

For emergency responders Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

Environmental precautions 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and material for containment and cleaning up

Small spill 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.

Large spill Stop leak if without risk. Move containers from spill area. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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. Avoid contact of spilt material and runoff with soil and surface waterways.

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

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. Issued/Revised: 11/2009.
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. Issued/Revised: 11/2009.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. Issued/Revised: 11/2009.
Distillates (petroleum), hydrotreated light paraffinic	

Section 8. Exposure controls/personal protection

Distillates (petroleum), solvent-dewaxed light paraffinic

ACGIH TLV (United States) [Mineral Oil, pure, highly and severely refined] A4.
TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. Issued/Revised: 11/2009.
ACGIH TLV (United States) [Mineral Oil, pure, highly and severely refined] A4.
TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. Issued/Revised: 11/2009.

Biological exposure indices

No exposure indices known.

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.

Eye protection

Safety glasses with side shields.

Skin protection

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.

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.

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	Brown.
Odour	Not available.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Drop Point	Not available.
Flash point	Closed cup: 204°C (399.2°F) [Pensky-Martens ASTM D 93]
Evaporation rate	Not available.
Flammability	Not available.
Lower and upper explosion limit/flammability limit	Not available.
Vapour pressure	

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

Relative vapour density	Not available.
Relative density	Not available.
Density	<1000 kg/m ³ (<1 g/cm ³) at 15°C
Solubility(ies)	

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Kinematic: 107.1 mm ² /s (107.1 cSt) at 40°C Kinematic: 14.3 to 15.3 mm ² /s (14.3 to 15.3 cSt) at 100°C (ASTM D 445)
Particle characteristics	
Median particle size	Not applicable.

Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
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

Distillates (petroleum), hydrotreated heavy paraffinic

Result

Rat - Oral - LD50

>5000 mg/kg
OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg
OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]
OECD 403

Distillates (petroleum), hydrotreated heavy paraffinic

Rat - Oral - LD50

>5000 mg/kg
OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg
OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]
OECD 403

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Rat - Oral - LD50

>5000 mg/kg
OECD 401

Rat - Dermal - LD50

>2000 mg/kg
OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5.53 mg/l [4 hours]
OECD 403

Distillates (petroleum), hydrotreated light paraffinic

Rat - Oral - LD50

>5000 mg/kg
OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg
OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5.53 mg/l [4 hours]
OECD 403

Distillates (petroleum), solvent-dewaxed light paraffinic

Rat - Oral - LD50

>5000 mg/kg
OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg
OECD 402

Rat - Inhalation - LC50 Dusts and mists

>2.18 mg/l [4 hours]
OECD 403

2,6-di-tert-butylphenol

Rat - Oral - LD50

>5000 mg/kg
OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg

Section 11. Toxicological information

Skin corrosion/irritation

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic
2,6-di-tert-butylphenol

Result

Rabbit - Skin - Mild irritant
OECD 404
Rabbit - Skin - Mild irritant
OECD 404
Rabbit - Skin - Non-irritant to skin.
Rabbit - Skin - Non-irritant to skin.
Rabbit - Skin - Non-irritant to skin.
Rabbit - Skin - Irritant
OECD 404

Serious eye damage/eye irritation

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic
2,6-di-tert-butylphenol

Result

Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic
2,6-di-tert-butylphenol

Result

Guinea pig - skin
OECD 406
Result: Not sensitising
Guinea pig - skin
OECD 406
Result: Not sensitising
Guinea pig - skin
OECD 406
Result: Not sensitising
Guinea pig - skin
OECD 406
Result: Not sensitising
Guinea pig - skin
OECD 406
Result: Not sensitising

Germ cell mutagenicity

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Format GHS - Thailand

Language ENGLISH

Build 5.0.4

(GHS - Thailand)

(ENGLISH)

Section 11. Toxicological information

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Result

In vitro - Bacteria

Bacterial Reverse Mutation Test

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

In vivo - Mammal - species unspecified

Mammalian Erythrocyte Micronucleus Test

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

Distillates (petroleum), hydrotreated heavy paraffinic

In vitro - Bacteria

Bacterial Reverse Mutation Test

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

In vivo - Mammal - species unspecified

Mammalian Erythrocyte Micronucleus Test

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

Distillates (petroleum), solvent-dewaxed heavy paraffinic

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

Distillates (petroleum), hydrotreated light paraffinic

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

Distillates (petroleum), solvent-dewaxed light paraffinic

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

2,6-di-tert-butylphenol

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

Carcinogenicity

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Result

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Distillates (petroleum), hydrotreated heavy paraffinic

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Reproductive toxicity

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Section 11. Toxicological information

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed light paraffinic

2,6-di-tert-butylphenol

Result

Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

Rat - Oral

OECD 421

Maternal toxicity: Positive

Fertility effects: Negative

Developmental: Equivocal

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed light paraffinic

Result

ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Inhalation

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

Skin contact

Defatting to the skin. May cause skin dryness and irritation.

Ingestion

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

No specific data.

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Section 11. Toxicological information

Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	No specific data.
<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>	
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
<u>Potential chronic health effects</u>	
Not available.	
Conclusion/Summary[Product]	Not available.
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.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Section 12. Ecological information

Environmental effects This material is harmful to aquatic life with long lasting effects.

Product/ingredient name	Result
Distillates (petroleum), hydrotreated heavy paraffinic	Acute - EL50 OECD 201 Algae >100 mg/l [72 hours] Acute - EL50 OECD 202 Daphnia >10000 mg/l [48 hours] Acute - LL50 OECD 203 Fish >100 mg/l [96 hours] Chronic - NOEL OECD 201 Algae ≥100 mg/l [72 hours] Chronic - NOEL OECD 211 Daphnia 10 mg/l [21 days]
Distillates (petroleum), hydrotreated heavy paraffinic	Acute - EL50 OECD 201 Algae >100 mg/l [72 hours] Acute - EL50 OECD 202 Daphnia >10000 mg/l [48 hours] Acute - LL50

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Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 203
	Fish
	>100 mg/l [96 hours]
	Chronic - NOEL
	OECD 201
	Algae
	≥100 mg/l [72 hours]
	Chronic - NOEL
	OECD 211
	Daphnia
	10 mg/l [21 days]
	Acute - EL50
OECD 201	
Algae	
>100 mg/l [72 hours]	
Acute - EL50	
OECD 202	
Daphnia	
>10000 mg/l [48 hours]	
Acute - LL50	
OECD 203	
Fish	
>100 mg/l [96 hours]	
Chronic - NOEL	
OECD 201	
Algae	
≥100 mg/l [72 hours]	
Chronic - NOEL	
OECD 211	
Daphnia	
10 mg/l [21 days]	
Acute - EL50	
OECD 201	
Algae	
>100 mg/l [72 hours]	
Acute - EL50	
OECD 202	
Daphnia	
>10000 mg/l [48 hours]	
Acute - LL50	
OECD 203	
Fish	
>100 mg/l [96 hours]	
Chronic - NOEL	
OECD 201	
Algae	
≥100 mg/l [72 hours]	
Chronic - NOEL	
OECD 211	
Daphnia	
10 mg/l [21 days]	
Acute - EL50	
OECD 201	
Algae	
>100 mg/l [72 hours]	
Acute - EL50	
OECD 202	
Daphnia	
>10000 mg/l [48 hours]	
Acute - LL50	
OECD 203	
Fish	
>100 mg/l [96 hours]	
Chronic - NOEL	
OECD 201	
Algae	
≥100 mg/l [72 hours]	

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed light paraffinic

Section 12. Ecological information

2,6-di-tert-butylphenol	Chronic - NOEL
	OECD 211
	Daphnia
	10 mg/l [21 days]
	Acute - EL50
	OECD 201
	Algae
	1.2 mg/l [96 hours]
	Acute - EL50
	OECD 202
Daphnia	
0.45 mg/l [48 hours]	
Acute - LC50	
OECD 203	
Fish	
1.4 mg/l [96 hours]	
Chronic - NOEC	
OECD 201	
Algae	
0.64 mg/l [96 hours]	
Chronic - NOEC	
OECD 211	
Daphnia	
0.035 mg/l [21 days]	

Persistence and degradability

Expected to be biodegradable.

Product/ingredient name

Result

Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F
Distillates (petroleum), hydrotreated heavy paraffinic	31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F
Distillates (petroleum), solvent-dewaxed heavy paraffinic	31% [28 days] - Not readily
Distillates (petroleum), hydrotreated light paraffinic	OECD 301F
Distillates (petroleum), hydrotreated light paraffinic	31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed light paraffinic	OECD 301F
Distillates (petroleum), solvent-dewaxed light paraffinic	31% [28 days] - Not readily
2,6-di-tert-butylphenol	OECD 301B
2,6-di-tert-butylphenol	24% [28 days] - Not readily

Bioaccumulative potential

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

Product/ingredient name	LogP _{ow}	BCF	Potential
2,6-di-tert-butylphenol	4.5	-	High
Alkylated phenol	6.1	-	High

Mobility

Spillages may penetrate the soil causing ground water contamination.

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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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 spill material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user Not available.

Transport in bulk according to IMO instruments Not available.

Section 15. Regulatory information

Regulation according to other foreign laws

Australia inventory (AIIC)	All components are listed or exempted.
Canada inventory status	All components are listed or exempted.
China inventory (IECSC)	At least one component is not listed.
REACH Status	For the REACH status of this product please consult your company contact, as identified in Section 1.
Japan inventory (CSCL)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	At least one component is not listed.
United States inventory (TSCA 8b)	All components are active or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
Harmful Chemicals List	Listed

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Section 16. Other information

History

Date of issue/Date of revision	18/11/2025.
Date of previous issue	03/09/2024.
Prepared by	Product Stewardship

Section 16. Other information

Key to abbreviations

ACGIH = American Conference of Industrial Hygienists
CAS Number = Chemical Abstracts Service Registry Number
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
OEL = Occupational Exposure Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
SDS = Safety Data Sheet
STEL = Short term exposure limit
TWA = Time weighted average
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. 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

References

Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

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