

Section 1. Identification

Product name Castrol CRB Multi 10W-30 CK-4
SDS # 469623
Code 469623-US12

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

Product use Engine Oils.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Supplier BP Lubricants USA Inc.
1500 Valley Road
Wayne, NJ 07470
Telephone: 1-888-CASTROL

EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)

EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)

Section 2. Hazards identification

OSHA/HCS status ☒ This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture ☒ TOXIC TO REPRODUCTION - Category 2

GHS label elements

Hazard pictograms



Signal word

☒ Warning

Hazard statements

☒ Suspected of damaging fertility or the unborn child.

Precautionary statements

Prevention

☒ Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.

Response

☒ If exposed or concerned: Get medical attention.

Storage

☒ Store locked up.

Disposal

☒ Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

☒ None known.

Hazards identified when used

☒ 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.

Defatting to the skin.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

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

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥80	CAS: 64742-54-7
Distillates (petroleum), hydrotreated heavy paraffinic	≥1 - ≤5	CAS: 64742-54-7
bis(nonylphenyl)amine	≥1 - ≤5	CAS: 36878-20-3
Distillates (petroleum), hydrotreated heavy paraffinic	≥1 - ≤5	CAS: 64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≥1 - ≤5	CAS: 64742-65-0
Distillates (petroleum), hydrotreated light paraffinic	≥1 - ≤5	CAS: 64742-55-8
Distillates (petroleum), solvent-dewaxed light paraffinic	≥1 - ≤5	CAS: 64742-56-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 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

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.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention. If skin irritation or rash occurs: Get medical attention.

Inhalation

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

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.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

No specific treatment.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media

Do not use water jet.

Section 5. Fire-fighting measures

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

Combustion products may include the following:
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)
nitrogen oxides (NO, NO₂ etc.)

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.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

☑ Entry into a confined space or poorly ventilated area contaminated with vapor, 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials 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 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 spilled 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. 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.

Section 7. Handling and storage

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. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Sulfur compounds in this material may decompose when heated to release hydrogen sulfide gas which may accumulate to potentially lethal concentrations in enclosed air spaces. Vapor concentrations of hydrogen sulfide above 50 ppm, or prolonged exposure at lower concentrations, may saturate human odor perceptions so that the smell of gas may not be apparent. Exposure to concentrations of hydrogen sulfide vapor above 500 ppm may cause rapid death. Do not rely on the sense of smell to detect hydrogen sulfide.

Not suitable

Prolonged exposure to elevated temperature

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	OSHA PEL (United States) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . Issued/Revised: 6/1993. 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	OSHA PEL (United States) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . Issued/Revised: 6/1993. 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.
bis(nonylphenyl)amine	None.
Distillates (petroleum), hydrotreated heavy paraffinic	OSHA PEL (United States) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . Issued/Revised: 6/1993. 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	OSHA PEL (United States) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . Issued/Revised: 6/1993. 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	OSHA PEL (United States) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . Issued/Revised: 6/1993. 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.

Section 8. Exposure controls/personal protection

Distillates (petroleum), solvent-dewaxed light paraffinic

OSHA PEL (United States) [Oil mist, mineral]

TWA 8 hours: 5 mg/m³. Issued/Revised: 6/1993.

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.

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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.

Individual protection measures

Hygiene measures

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

Eye/face protection

Safety 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.

Body 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.

Other skin protection

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

Section 8. Exposure controls/personal protection

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.

Color

Brown.

Odor

Not available.

Odor threshold

Not available.

pH

Not applicable.

Melting point/freezing point

Not available.

Boiling point or initial boiling point and boiling range

Not available.

Flash point

Open cup: 243°C (469.4°F) [Cleveland ASTM D 92]

Pour point

-45 °C

Evaporation rate

Not available.

Flammability

Not available.

Lower and upper explosion limit/flammability limit

Not available.

Vapor pressure

Ingredient name	Vapor Pressure at 20 °C			Vapor 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), 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			

Relative vapor density

Not available.

Density

<1000 kg/m³ (<1 g/cm³) at 15°C

Solubility(ies)

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water

Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
Di(nonylphenyl)amine	440	824	EU A.15

Decomposition temperature

Not available.

Section 9. Physical and chemical properties

Viscosity

Kinematic: 80.8 mm²/s (80.8 cSt) at 40°C
Kinematic: 11.9 to 12.5 mm²/s (11.9 to 12.5 cSt) at 100°C

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 polymerization will not occur.

Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

Hydrogen Sulfide (H₂S)

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
Based on studies with similar substances.

Rabbit - Dermal - LD50

>5000 mg/kg
OECD 402
Based on studies with similar substances.

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]
OECD 403
Based on studies with similar substances.

Rat - Oral - LD50

>5000 mg/kg
OECD 401
Based on studies with similar substances.

Rabbit - Dermal - LD50

>5000 mg/kg
OECD 402
Based on studies with similar substances.

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]
OECD 403
Based on studies with similar substances.

Rat - Oral - LD50

>5000 mg/kg
OECD 401
Based on studies with similar substances.

Rat - Dermal - LD50

>2000 mg/kg
OECD 402
Based on studies with similar substances.

Distillates (petroleum), hydrotreated heavy paraffinic

bis(nonylphenyl)amine

Section 11. Toxicological information

Distillates (petroleum), hydrotreated heavy paraffinic

Rat - Oral - LD50

>5000 mg/kg

OECD 401

Based on studies with similar substances.

Rabbit - Dermal - LD50

>5000 mg/kg

OECD 402

Based on studies with similar substances.

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]

OECD 403

Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Rat - Oral - LD50

>5000 mg/kg

OECD 401

Based on studies with similar substances.

Rat - Dermal - LD50

>2000 mg/kg

OECD 402

Based on studies with similar substances.

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

Based on studies with similar substances.

Rabbit - Dermal - LD50

>5000 mg/kg

OECD 402

Based on studies with similar substances.

Rat - Inhalation - LC50 Dusts and mists

>5.53 mg/l [4 hours]

OECD 403

Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed light paraffinic

Rat - Oral - LD50

>5000 mg/kg

OECD 401

Based on studies with similar substances.

Rabbit - Dermal - LD50

>5000 mg/kg

OECD 402

Based on studies with similar substances.

Rat - Inhalation - LC50 Dusts and mists

>2.18 mg/l [4 hours]

OECD 403

Based on studies with similar substances.

Skin corrosion/irritation

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

bis(nonylphenyl)amine

Distillates (petroleum), hydrotreated heavy paraffinic

Result

Rabbit - Skin - Mild irritant

OECD 404

Based on studies with similar substances.

Rabbit - Skin - Mild irritant

OECD 404

Based on studies with similar substances.

Rabbit - Skin - Non-irritant to skin.

OECD 404

Rabbit - Skin - Mild irritant

OECD 404

Based on studies with similar substances.

Section 11. Toxicological information

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

Rabbit - Skin - Non-irritant to skin.
Based on studies with similar substances.
Rabbit - Skin - Non-irritant to skin.
Based on studies with similar substances.
Rabbit - Skin - Non-irritant to skin.
Based on studies with similar substances.

Serious eye damage/eye irritation

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

bis(nonylphenyl)amine

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed light paraffinic

Result

Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Based on studies with similar substances.
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Based on studies with similar substances.
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Based on studies with similar substances.
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Based on studies with similar substances.
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Based on studies with similar substances.
Rabbit - Eyes - Non-irritating to the eyes.
OECD 405
Based on studies with similar substances.

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

bis(nonylphenyl)amine

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Result

Guinea pig - skin
OECD 406
Not sensitizing
Based on studies with similar substances.
Guinea pig - skin
OECD 406
Not sensitizing
Based on studies with similar substances.
Guinea pig - skin
OECD 406
Not sensitizing
Based on studies with similar substances.
Guinea pig - skin
OECD 406
Not sensitizing
Based on studies with similar substances.
Guinea pig - skin
OECD 406
Not sensitizing
Based on studies with similar substances.
Guinea pig - skin
OECD 406
Not sensitizing

Section 11. Toxicological information

Distillates (petroleum), solvent-dewaxed light paraffinic	Based on studies with similar substances. Guinea pig - skin OECD 406 Not sensitizing Based on studies with similar substances.
Germ cell mutagenicity Product/ingredient name Distillates (petroleum), hydrotreated heavy paraffinic	Result In vitro - Bacteria Bacterial Reverse Mutation Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Chromosomal Aberration Test <u>Result:</u> Negative Based on studies with similar substances. In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Bacteria Bacterial Reverse Mutation Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Chromosomal Aberration Test <u>Result:</u> Negative Based on studies with similar substances. In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test <u>Result:</u> Negative Based on studies with similar substances.
Distillates (petroleum), hydrotreated heavy paraffinic	In vitro - Bacteria Bacterial Reverse Mutation Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Chromosomal Aberration Test <u>Result:</u> Negative Based on studies with similar substances. In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test <u>Result:</u> Negative Based on studies with similar substances.
bis(nonylphenyl)amine	In vitro - Bacteria OECD 471 [Bacterial Reverse Mutation Test] <u>Result:</u> Negative In vitro - Mammal - species unspecified OECD 487 [In vitro Micronucleus Test] <u>Result:</u> Negative In vitro - Mammal - species unspecified OECD 476 [In vitro Mammalian Cell Gene Mutation Test] <u>Result:</u> Negative In vitro - Bacteria Bacterial Reverse Mutation Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Chromosomal Aberration Test <u>Result:</u> Negative Based on studies with similar substances. In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test <u>Result:</u> Negative
Distillates (petroleum), hydrotreated heavy paraffinic	In vitro - Bacteria Bacterial Reverse Mutation Test <u>Result:</u> Negative Based on studies with similar substances. In vitro - Mammal - species unspecified In vitro Mammalian Chromosomal Aberration Test <u>Result:</u> Negative Based on studies with similar substances. In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test <u>Result:</u> Negative

Section 11. Toxicological information

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Based on studies with similar substances.
In vitro - Mammal - species unspecified
In vitro Mammalian Cell Gene Mutation Test
Result: Negative

Based on studies with similar substances.

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

Based on studies with similar substances.

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

Based on studies with similar substances.

Distillates (petroleum), hydrotreated light paraffinic

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

Based on studies with similar substances.

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed light paraffinic

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

Based on studies with similar substances.

In vitro - Mammal - species unspecified

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

Based on studies with similar substances.

Carcinogenicity

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Result

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Based on studies with similar substances.

Distillates (petroleum), hydrotreated heavy paraffinic

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Based on studies with similar substances.

Distillates (petroleum), hydrotreated heavy paraffinic

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Mouse - Dermal - Unspecified

OECD 451

Result: Negative

Based on studies with similar substances.

Not available.

Reproductive toxicity

Product/ingredient name

Result

Section 11. Toxicological information

Distillates (petroleum), hydrotreated heavy paraffinic

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Based on studies with similar substances.

Distillates (petroleum), hydrotreated heavy paraffinic

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Based on studies with similar substances.

bis(nonylphenyl)amine

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Positive
Developmental: Negative
Suspected of damaging fertility.

Distillates (petroleum), hydrotreated heavy paraffinic

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Based on studies with similar substances.

Distillates (petroleum), hydrotreated light paraffinic

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed light paraffinic

Rat - Oral
OECD 421
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative
Based on studies with similar substances.

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
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Section 11. Toxicological information

Information on the 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	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

Short term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.

Potential chronic health effects

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	Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

No testing has been performed by the manufacturer.

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Result

Acute - EL50

OECD 201

Algae

>100 mg/l [72 hours]

Based on studies with similar substances.

Acute - EL50

OECD 202

Daphnia

>10000 mg/l [48 hours]

Based on studies with similar substances.

Acute - LL50

OECD 203

Fish

>100 mg/l [96 hours]

Based on studies with similar substances.

Chronic - NOEL

OECD 201

Algae

≥100 mg/l [72 hours]

Based on data available for this or related materials.

Chronic - NOEL

OECD 211

Daphnia

10 mg/l [21 days]

Based on studies with similar substances.

Acute - EL50

OECD 201

Algae

>100 mg/l [72 hours]

Based on studies with similar substances.

Acute - EL50

OECD 202

Daphnia

>10000 mg/l [48 hours]

Based on studies with similar substances.

Acute - LL50

OECD 203

Fish

>100 mg/l [96 hours]

Based on studies with similar substances.

Chronic - NOEL

OECD 201

Algae

≥100 mg/l [72 hours]

Based on data available for this or related materials.

Chronic - NOEL

OECD 211

Daphnia

10 mg/l [21 days]

Based on studies with similar substances.

Acute - EC50

OECD 201

Algae

>100 mg/l [72 hours]

Based on studies with similar substances.

Distillates (petroleum), hydrotreated heavy paraffinic

bis(nonylphenyl)amine

Section 12. Ecological information

Distillates (petroleum), hydrotreated heavy paraffinic

Acute - EC50

OECD 202
Daphnia
>100 mg/l [48 hours]

Acute - LC50

OECD 203
Fish
>100 mg/l [96 hours]
Based on studies with similar substances.

Acute - EL50

OECD 201
Algae
>100 mg/l [72 hours]
Based on studies with similar substances.

Acute - EL50

OECD 202
Daphnia
>10000 mg/l [48 hours]
Based on studies with similar substances.

Acute - LL50

OECD 203
Fish
>100 mg/l [96 hours]
Based on studies with similar substances.

Chronic - NOEL

OECD 201
Algae
≥100 mg/l [72 hours]
Based on data available for this or related materials.

Chronic - NOEL

OECD 211
Daphnia
10 mg/l [21 days]
Based on studies with similar substances.

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Acute - EL50

OECD 201
Algae
>100 mg/l [72 hours]
Based on studies with similar substances.

Acute - EL50

OECD 202
Daphnia
>10000 mg/l [48 hours]
Based on studies with similar substances.

Acute - LL50

OECD 203
Fish
>100 mg/l [96 hours]
Based on studies with similar substances.

Chronic - NOEL

OECD 201
Algae
≥100 mg/l [72 hours]
Based on studies with similar substances.

Chronic - NOEL

OECD 211
Daphnia
10 mg/l [21 days]
Based on studies with similar substances.

Distillates (petroleum), hydrotreated light paraffinic

Acute - EL50

OECD 201
Algae
>100 mg/l [72 hours]
Based on studies with similar substances.

Section 12. Ecological information

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

Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name

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

Result

OECD 301F
31% [28 days] - Not readily
OECD 301F
31% [28 days] - Not readily
1% [28 days] - Not readily
OECD 301F
31% [28 days] - Not readily
OECD 301F
31% [28 days] - Not readily
OECD 301F
31% [28 days] - Not readily
OECD 301F

Section 12. Ecological information

paraffinic

31% [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
Bis(nonylphenyl)amine	3.64 to 7.02	-	High

Mobility in soil

Soil/Water partition coefficient

Not available.

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 minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

Special precautions for user

Not available.

Transport in bulk according to IMO instruments

Not available.

Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

All components are active or exempted.

TSCA 12(b) - Chemical export notification

Not applicable.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

☒ TOXIC TO REPRODUCTION - Category 2

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	☒ chrysene	218-01-9	0.000000355
	benz[a]anthracene	56-55-3	0.0000001136
Supplier notification	☒ chrysene	218-01-9	0.000000355
	benz[a]anthracene	56-55-3	0.0000001136

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

☒ The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED LIGHT PARAFFINIC

New Jersey

None of the components are listed.

Pennsylvania

None of the components are listed.

California Prop. 65

⚠ **WARNING:** This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. Ethylbenzene, Chrysene, Naphthalene, Benz[a]anthracene and cumene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Other regulations

Australia inventory (AIC)

All components are listed or exempted.

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

At least one component is not listed.

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.

Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

REACH Status

For the REACH status of this product please consult your company contact, as identified in Section 1.

Section 16. Other information

National Fire Protection Association (U.S.A.)



Section 16. Other information

History

Date of issue/Date of revision 07/17/2026.

Date of previous issue 10/30/2025.

Prepared by Product Stewardship

Key to abbreviations

ACGIH = American Conference of Industrial Hygienists
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS Number = Chemical Abstracts Service Registry Number
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OEL = Occupational Exposure Limit
SDS = Safety Data Sheet
STEL = Short term exposure limit
TWA = Time weighted average
UN = United Nations
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

 Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it are accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

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 Castrol.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Castrol shall not be responsible for any damage or injury resulting from use, other than use for the stated application or applications, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product to supply a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected by any hazards described in this sheet and of any precautions that should be taken. You can contact Castrol to ensure that this document is the most current available. Alteration of this document is strictly prohibited.