

## Section 1. Identification

|                                                                                             |                                                                                                                                      |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>GHS product identifier</b>                                                               | Castrol EDGE 0W-40                                                                                                                   |
| <b>Product code</b>                                                                         | 463998-CN04                                                                                                                          |
| <b>SDS #</b>                                                                                | 463998                                                                                                                               |
| <b><u>Relevant identified uses of the substance or mixture and uses advised against</u></b> |                                                                                                                                      |
| <b>Use of the substance/<br/>mixture</b>                                                    | Engine oils.<br>For specific application advice see appropriate Technical Data Sheet or consult our company representative.          |
| <b>Supplier</b>                                                                             | Castrol (Shanghai) Management Co., Ltd.<br>3F, Building 5, No. 255 of Guiqiao Road,<br>Shanghai P.R.C. 201206<br>Tel:+86 21 38605888 |
| <b>EMERGENCY TELEPHONE<br/>NUMBER</b>                                                       | Carechem: + 86 400 120 6011 (24/7)                                                                                                   |

## Section 2. Hazards identification

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification of the<br/>substance or mixture</b>          | Not classified.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b><u>GHS label elements</u></b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Signal word</b>                                             | No signal word.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hazard statements</b>                                       | No known significant effects or critical hazards.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b><u>Precautionary statements</u></b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Prevention</b>                                              | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Response</b>                                                | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>                                                 | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Disposal</b>                                                | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Other hazards which do not<br/>result in classification</b> | Defatting to the skin.<br>USED ENGINE OILS<br>Used engine oil may contain hazardous components which have the potential to cause skin cancer.<br>See Toxicological Information, section 11 of this Safety Data Sheet.<br>Defatting to the skin.<br>USED ENGINE OILS<br>Used engine oil may contain hazardous components which have the potential to cause skin cancer.<br>See Toxicological Information, section 11 of this Safety Data Sheet. |

## Section 3. Composition/information on ingredients

|                                                                                                              |         |
|--------------------------------------------------------------------------------------------------------------|---------|
| <b>Substance/mixture</b>                                                                                     | Mixture |
| Highly refined base oil (IP 346 DMSO extract < 3%). Synthetic base stock. Proprietary performance additives. |         |

## Section 3. Composition/information on ingredients

| Ingredient name                                                      | %         | CAS number      |
|----------------------------------------------------------------------|-----------|-----------------|
| Distillates (petroleum), hydrotreated heavy paraffinic               | ≥50 - ≤75 | CAS: 64742-54-7 |
| Dec-1-ene, homopolymer, hydrogenated                                 | ≤10       | CAS: 68037-01-4 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic            | ≤3        | CAS: 64742-65-0 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ≤3        | CAS: 72623-86-0 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ≤3        | CAS: 72623-87-1 |

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

|                     |                                                                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Inhalation</b>   | If 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 if symptoms occur.                                         |
| <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 attention. |
| <b>Ingestion</b>    | Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.                                                                                                                                                                        |

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

|                                   |                                                                                                                                                                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>         | 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. |
| <b>Specific treatments</b>        | No specific treatment.                                                                                                                                                                                                                                |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training.                                                                                                                                                                    |

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

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

## Section 5. Firefighting measures

### Extinguishing media

|                                                       |                                                                                                                                                                                             |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                   | In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.                                                                                                            |
| <b>Unsuitable extinguishing media</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:<br>carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)<br>nitrogen oxides (NO, NO <sub>2</sub> etc.)                      |
| <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. |
| <b>Special protective equipment for fire-fighters</b> | 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

|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</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>For emergency responders</b>                                    | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".                                                                                                                                                                             |
| <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.                                                                                                                                                                                  |
| <b>Large spill</b>                                                 | 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

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protective measures</b>                                          | Put on appropriate personal protective equipment (see Section 8).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Advice on general occupational hygiene</b>                       | 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.                                                                                                                                                                                               |
| <b>Conditions for safe storage, including any incompatibilities</b> | 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. |

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Not suitable</b> | Prolonged exposure to elevated temperature. |
|---------------------|---------------------------------------------|

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

#### 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

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## Section 8. Exposure controls/personal protection

### Environmental exposure controls

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.

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.

##### 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. [Light]

#### Odour

Not available.

#### Odour threshold

Not available.

#### pH

Not applicable.

#### Melting point/freezing point

Not available.

## Section 9. Physical and chemical properties

**Boiling point or initial boiling point and boiling range**

Not available.

**Drop Point**

Not available.

**Flash point**

Closed cup: 200.5°C (392.9°F) [Pensky-Martens ASTM D 93]  
Open cup: >200°C (>392°F) [Cleveland ASTM D 92]

**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), solvent-dewaxed heavy paraffinic            | <0.07501                | <0.01 | ASTM D 5191 |                         |     |        |
| Lubricating oils (petroleum), C15-30, 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 |                         |     |        |
| Polybutene (Isobutylene/butene copolymer)                            | 5.10043                 | 0.68  |             | 13.05111                | 1.7 |        |

**Relative vapour density**

Not available.

**Relative density**

Not available.

**Density**

<1000 kg/m<sup>3</sup> (<1 g/cm<sup>3</sup>) 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      |
|-------------------------------------------------------------------------|------------|----------------|-------------|
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 343 to 369 | 649.4 to 696.2 | ASTM D 2159 |
| Dec-1-ene, homopolymer, hydrogenated                                    | 343 to 369 | 649.4 to 696.2 | ASTM D 2159 |
| bis(nonylphenyl)amine                                                   | 440        | 824            | EU A.15     |
| Polybutene (Isobutylene/butene copolymer)                               | 215        | 419            | EU A.15     |

**Decomposition temperature**

Not available.

**Viscosity**

Kinematic: 73.9 mm<sup>2</sup>/s (73.9 cSt) at 40°C  
Kinematic: 13.1 to 15 mm<sup>2</sup>/s (13.1 to 15 cSt) at 100°C

**Particle characteristics**

**Median particle size**

Not applicable.

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## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.                                   |
| <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.<br>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 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

Dec-1-ene, homopolymer, hydrogenated

###### **Rat - Oral - LD50**

>5000 mg/kg  
OECD 423

###### **Rat - Dermal - LD50**

>2000 mg/kg  
OECD 402

###### **Rat - Inhalation - LD50 Dusts and mists**

>5.2 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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

###### **Rat - Oral - LD50**

>5000 mg/kg  
OECD 401

###### **Rat - Dermal - LD50**

>2000 mg/kg  
OECD 402

###### **Rat - Inhalation - LC50 Dusts and mists**

>5 mg/l [4 hours]  
OECD 403

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

###### **Rat - Oral - LD50**

>5000 mg/kg  
OECD 423

###### **Rat - Dermal - LD50**

>5000 mg/kg

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## Section 11. Toxicological information

OECD 402  
**Rat - Inhalation - LC50 Dusts and mists**  
>5 mg/l [4 hours]  
OECD 403

### Skin corrosion/irritation

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic  
Dec-1-ene, homopolymer, hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic  
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

#### **Result**

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

### Serious eye damage/eye irritation

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic  
Dec-1-ene, homopolymer, hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic  
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

#### **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 - Severe irritant**  
OECD 405

### Respiratory corrosion/irritation

Not available.

### Respiratory or skin sensitization

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Dec-1-ene, homopolymer, hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

#### **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

## Section 11. Toxicological information

### Germ Cell Mutagenicity

#### 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

Dec-1-ene, homopolymer, hydrogenated

##### In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

##### In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

##### In vivo - Mammal - species unspecified

OECD [Mammalian Erythrocyte Micronucleus 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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

##### In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

##### In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

##### In vitro - Unspecified

OECD [In vitro Mammalian Cell Gene Mutation Test]

Result: Negative

##### In vivo - Mammal - species unspecified

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

##### In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

##### In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Positive

##### In vivo - Mammal - species unspecified

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

##### In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Cell Gene Mutation Test]

Result: Negative

## Section 11. Toxicological information

### Carcinogenicity

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

#### **Result**

**Mouse - Dermal - Unspecified**

OECD 451

Result: Negative

**Mouse - Dermal - Unspecified**

OECD 451

Result: Negative

### Reproductive toxicity

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Dec-1-ene, homopolymer, hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

#### **Result**

**Rat - Oral**

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

**Rat - Oral**

OECD 415

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

### 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

Dec-1-ene, homopolymer, hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

#### **Result**

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

## Section 11. Toxicological information

### Information on likely routes of exposure

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

### Potential acute health effects

|                     |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | No known significant effects or critical hazards.                                                                |
| <b>Inhalation</b>   | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| <b>Skin contact</b> | Defatting to the skin. May cause skin dryness and irritation.                                                    |
| <b>Ingestion</b>    | No known significant effects or critical hazards.                                                                |

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

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| <b>Eye contact</b>  | No specific data.                                                                |
| <b>Inhalation</b>   | No specific data.                                                                |
| <b>Skin contact</b> | Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking |
| <b>Ingestion</b>    | No specific data.                                                                |

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

|                     |                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Potential risk of transient stinging or redness if accidental eye contact occurs.                    |
| <b>Skin contact</b> | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |
| <b>Ingestion</b>    | Ingestion of large quantities may cause nausea and diarrhoea.                                        |

#### Short term exposure

|                                    |                |
|------------------------------------|----------------|
| <b>Potential immediate effects</b> | Not available. |
| <b>Potential delayed effects</b>   | Not available. |

#### Long term exposure

|                                    |                |
|------------------------------------|----------------|
| <b>Potential immediate effects</b> | Not available. |
| <b>Potential delayed effects</b>   | Not available. |

### Potential chronic health effects

|                              |                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>               | USED ENGINE OILS<br>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. |
| <b>Carcinogenicity</b>       | No known significant effects or critical hazards.                                                                                                                                                                                                                                                                                                                                               |
| <b>Mutagenicity</b>          | No known significant effects or critical hazards.                                                                                                                                                                                                                                                                                                                                               |
| <b>Developmental effects</b> | No known significant effects or critical hazards.                                                                                                                                                                                                                                                                                                                                               |
| <b>Fertility effects</b>     | No known significant effects or critical hazards.                                                                                                                                                                                                                                                                                                                                               |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

#### Result

##### 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

Equivalent to OECD 201

Algae

>1000 mg/l [72 hours]

##### Acute - EL50

OECD 202

Daphnia

>1000 mg/l [48 hours]

##### Chronic - NOELR

OECD 211

Daphnia

125 mg/l [21 days]

##### Acute - LL50

OECD 203

Fish

>1000 mg/l [96 hours]

##### 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]

Dec-1-ene, homopolymer, hydrogenated

Distillates (petroleum), solvent-dewaxed heavy paraffinic

## Section 12. Ecological information

Lubricating oils (petroleum), C15-30,  
hydrotreated neutral oil-based

**Acute - ErL50**  
OECD 201  
Algae  
100 mg/l [72 hours]  
**Chronic - NOELR**  
OECD 201  
Algae  
100 mg/l [72 hours]  
**Acute - EL50**  
OECD 202  
Daphnia  
>1000 mg/l [48 hours]  
**Chronic - NOELR**  
OECD 211  
Daphnia  
10 to 1000 mg/l [21 days]  
**Acute - LL50**  
OECD 203  
Fish  
>100 mg/l [96 hours]  
**Acute - NOEL**  
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 211  
Daphnia  
≥1000 mg/l [21 days]

Lubricating oils (petroleum), C20-50,  
hydrotreated neutral oil-based

**Environmental effects** No known significant effects or critical hazards.

### Persistence/degradability

Not expected to be rapidly degradable.

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy  
paraffinic  
Distillates (petroleum), solvent-dewaxed  
heavy paraffinic  
Lubricating oils (petroleum), C20-50,  
hydrotreated neutral oil-based

#### **Result**

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

### Bioaccumulative potential

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

| Product/ingredient name                 | LogP <sub>ow</sub> | BCF | Potential |
|-----------------------------------------|--------------------|-----|-----------|
| Dec-1-ene, homopolymer,<br>hydrogenated | >6.5               | -   | High      |

## Section 12. Ecological information

### 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 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. 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

|                            | China GB12268  | 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.            |
| Additional information     | -              | -              | -              |

Special precautions for user

Not available.

Matters needing attention for transportation

Ensure that any additional local government transport conditions are met

## Section 15. Regulatory information

### List of Goods banned for Importing

None of the components are listed.

### Drug Precursors Requiring an Import/Export License

None of the components are listed.

### Catalogue and classification of drug precursor chemicals

Product name Castrol EDGE 0W-40

Product code 463998-CN04 Page: 13/15

Version 5.01 Date of issue 12/30/2025

Format China  
China

Language ENGLISH  
(ENGLISH)

## Section 15. Regulatory information

| Category   | Ingredient name | %    | Status |
|------------|-----------------|------|--------|
| Category 3 | toluene         | ≤0.1 | Listed |

### List of Explosive Precursors

None of the components are listed.

### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Regulation according to other foreign laws

#### REACH Status

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

#### 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)

At least one component is not listed.

#### 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.

#### United States inventory (TSCA 8b)

All components are active or exempted.

## Section 16. Other information

### History

Date of printing 12/30/2025

Date of issue/Date of revision 12/30/2025

Date of previous issue 6/18/2025

Version 5.01

Prepared by Product Stewardship

### Key to abbreviations

ACGIH = American Conference of Industrial Hygienists

CAS Number = Chemical Abstracts Service Registry Number

GHS = Global Harmonised System

IATA = International Air Transport Association, the organisation

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

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

Product name Castrol EDGE 0W-40

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## Section 16. Other information

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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|                                       |                     |                               |                    |                |               |              |
|---------------------------------------|---------------------|-------------------------------|--------------------|----------------|---------------|--------------|
| <b>Date of issue/Date of revision</b> | <b>: 12/30/2025</b> | <b>Date of previous issue</b> | <b>: 6/18/2025</b> | <b>Version</b> | <b>: 5.01</b> | <b>15/15</b> |
|---------------------------------------|---------------------|-------------------------------|--------------------|----------------|---------------|--------------|