

Castrol EDGE 0W-40 LL

Safety Data Sheet according to GB/T 16483-2008 and GB/
T 17519-2013

Section 1. Identification

GHS product identifier	Castrol EDGE 0W-40 LL
Product code	471306-CN20
SDS #	471306
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Use of the substance/ mixture	Engine Oils. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Castrol (Shanghai) Management Co., Ltd. 3F, Building 5, No. 255 of Guiqiao Road, Shanghai P.R.C. 201206 Tel:+86 21 38605888
EMERGENCY TELEPHONE NUMBER	Carechem: + 86 400 120 6011 (24/7)

Section 2. Hazards identification

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

Section 3. Composition/information on ingredients

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

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥50 - ≤75	CAS: 64742-54-7
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	≥10 - ≤25	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

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			China	Language	ENGLISH (ENGLISH)

Section 3. Composition/information on ingredients

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

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.
Inhalation	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.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	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

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.
Protection of first-aiders	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

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.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ 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	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.
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Section 6. Accidental release measures

For emergency responders	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".
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<u>Methods and material for containment and cleaning up</u>	
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. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable	Prolonged exposure to elevated temperature
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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 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.

Section 8. Exposure controls/personal protection

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.

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

Amber. [Light]

Odour

Not available.

Odour threshold

Not available.

pH

Not applicable.

Melting point/freezing point

Not available.

Boiling point or initial boiling point and boiling range

Not available.

Drop Point

Not available.

Flash point

Closed cup: 228°C (442.4°F) [Pensky-Martens ASTM D 93]
Open cup: >200°C (>392°F) [Cleveland ASTM D 92]

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Section 9. Physical and chemical properties

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/m³ (<1 g/cm³) at 15°C

Solubility(ies)

Not available.

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 Dec-1-ene, oligomers, 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: 77.9 mm²/s (77.9 cSt) at 40°C
Kinematic: 13.6 to 14.3 mm²/s (13.6 to 14.3 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 polymerisation will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Result

Rat - Oral - LD50

>5000 mg/kg

OECD 401

Rabbit - Dermal - LD50

>5000 mg/kg

OECD 402

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours]

OECD 403

Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, oligomers, 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
Dec-1-ene, oligomers, 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
Dec-1-ene, oligomers, 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
Dec-1-ene, oligomers, 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

Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, oligomers, 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

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

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

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 - 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

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
Dec-1-ene, oligomers, 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

Dec-1-ene, oligomers, 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

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	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	No specific data.

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

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

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

General	USED ENGINE OILS Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated

Distillates (petroleum), solvent-dewaxed 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
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]

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	Result
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	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 _{ow}	BCF	Potential
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	>10	-	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

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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

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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

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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.

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