

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | Product code: | Date of last issue: - |
| 1.0 | 28.10.2016 | 568359 | Date of first issue: 28.10.2016 |
| | | | Print Date: 30.11.2016 |

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30
Product code : 568359

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

Use of the Sub- : Engine oil
stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Lukoil Lubricants Europe Oy
Ölhafen Lobau – Uferstr. 8
1220 Wien
Austria

Telephone : +43 (1) 205 222 - 8800
Responsible/issuing person : info.product-safety@lukoil.com

1.4 Emergency telephone number

Telephone : +43 (1) 205 222 – 8800
(5d/08:00 – 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P102 Keep out of reach of children.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH210 Safety data sheet available on request.
EUH208 Contains: C14-16-18 Alkyl phenol. May produce an allergic reaction.

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Material can create slippery conditions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
Hydrocarbons
Additives

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|---|--|---|----------------------|
| The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. : | | | |
| lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | 72623-87-1 276-738-4 01-2119474889-13 | Asp. Tox.1; H304 | >= 30 - < 70 |
| 1-Decene, homopolymer, hydrogenated | 68037-01-4 01-2119486452-34 | Asp. Tox.1; H304 | >= 10 - < 20 |
| lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 276-737-9 01-2119474878-16 | Asp. Tox.1; H304 | < 5 |
| distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 265-157-1 01-2119484627-25 | Asp. Tox.1; H304 | < 5 |
| distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 265-169-7 01-2119471299-27 | Asp. Tox.1; H304 | < 5 |
| bis(nonylphenyl)amine | 36878-20-3 253-249-4 01-2119488911-28 | Aquatic Chronic4; H413 | >= 1 - < 2,5 |
| A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate | 125643-61-0 406-040-9 01-0000015551-76 | Aquatic Chronic4; H413 | >= 1 - < 2,5 |

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| | | | |
|--|---|--|---------------------|
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) | 93819-94-4 298-577-9 01-2119543726-33 | Aquatic Chronic2; H411 | $\geq 1 - < 2,5$ |
| C14-16-18 Alkyl phenol | 01-2119498288-19 | Skin Sens.1B; H317 Aquatic Chronic4; H413 | $\geq 0,1 - < 0,25$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
- If inhaled : If breathed in, move person into fresh air.
Move to fresh air in case of accidental inhalation of vapours.
- In case of skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser.
If on clothes, remove clothes.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Obtain medical attention.
When symptoms persist or in all cases of doubt seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Gastrointestinal discomfort
Stomach/intestinal disorders
Vomiting
Pneumonia
irritant effects
- Risks : May cause eye irritation.
Risk of product entering the lungs on vomiting after ingestion.
Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Later control for pneumonia and lung oedema.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Extinguishing media - large fires Complete suit protecting against chemicals

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep people away from and upwind of spill/leak.
Use personal protective equipment.
First aider needs to protect himself.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation, especially in confined areas.
The danger areas must be delimited and identified using relevant warning and safety signs.
Refer to section 15 for specific national regulation.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage.
Avoid subsoil penetration.
Do not contaminate water.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

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Methods for cleaning up : Use mechanical handling equipment.
Soak up with oil absorbent material.
Offer surplus and non-recyclable solutions to a licensed disposal company.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Take care to avoid waste and spillage when weighing, loading and mixing the product.
Avoid formation of aerosol.
Use only in area provided with appropriate exhaust ventilation.
Provide exhaust ventilation close to floor level.
Do not get on skin or clothing.
Avoid inhalation, ingestion and contact with skin and eyes.
- Advice on protection against fire and explosion : To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.
Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Take measures to prevent the build up of electrostatic charge.
Keep away from heat and sources of ignition.
Keep in a bonded area.
Do not smoke.
- Hygiene measures : Remove all contaminated clothing under the shower.
Wash contaminated clothing before re-use.
Do not get in eyes.
Avoid contact with skin and clothing.
- Fire-fighting class : Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep tightly closed.
Keep in a well-ventilated place.
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.
- Further information on storage conditions : Keep away from heat and sources of ignition.
- Advice on common storage : Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water,

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oxidizing products, infectious products and radioactive products.
Do not store together with oxidizing and self-igniting products.
Do not store together with explosives, oxidizing agents, organic peroxides and infectious products.
Do not store together with acids and ammonium salts.

Other data : Keep away from direct sunlight.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| | |
|--|---|
| bis(nonylphenyl)amine | : End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 0,62 mg/kg End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 4,37 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 0,31 mg/kg End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 1,09 mg/m3 End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 0,31 mg/kg |
| A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate | : End Use: Workers Exposure routes: Skin contact Potential health effects: Acute systemic effects Value: 20 mg/kg End Use: Workers Exposure routes: Skin contact Potential health effects: Acute local effects Value: 1 mg/cm2 End Use: Workers Exposure routes: Skin contact |

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| | |
|------------------------------|--|
| | Potential health effects: Long-term systemic effects |
| | Value: 0,22 mg/kg |
| | End Use: Workers |
| | Exposure routes: Skin contact |
| | Potential health effects: Long-term local effects |
| | Value: 0,006 mg/cm ² |
| zinc bis[O-(6-methylheptyl)] | : End Use: Workers |
| bis[O-(sec-butyl)] | Exposure routes: Inhalation |
| bis(dithiophosphate) | Potential health effects: Long-term systemic effects |
| | Value: 8,31 mg/m ³ |
| | End Use: Consumers |
| | Exposure routes: Ingestion |
| | Potential health effects: Long-term systemic effects |
| | Value: 0,24 mg/kg/day |
| | End Use: Consumers |
| | Exposure routes: Inhalation |
| | Potential health effects: Long-term systemic effects |
| | Value: 2,11 mg/m ³ |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| | |
|--|--------------------------------|
| bis(nonylphenyl)amine | : Fresh water |
| | Value: 0,1 mg/l |
| | Marine water |
| | Value: 0,01 mg/l |
| | Fresh water sediment |
| | Value: 132000 mg/kg |
| | Marine sediment |
| | Value: 13200 mg/kg |
| | Soil |
| | Value: 263000 mg/kg |
| A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate | : Fresh water |
| | Value: 0,0043 mg/l |
| | Marine water |
| | Value: 0,00043 mg/l |
| | Fresh water sediment |
| | Value: 233 mg/kg |
| | Marine sediment |
| | Value: 23,3 mg/kg |
| | Soil |
| | Value: 189 mg/kg |
| zinc bis[O-(6-methylheptyl)] | : Fresh water |
| bis[O-(sec-butyl)] | Value: 0,004 mg/l |
| bis(dithiophosphate) | Marine water |
| | Value: 0,0046 mg/l |
| | Intermittent use/release |
| | Value: 0,021 mg/l |
| | Fresh water sediment |
| | Value: 0,0116 mg/kg dry weight |
| | Marine sediment |

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Value: 0,00116 mg/kg dry weight
Soil
Value: 0,00528 mg/kg dry weight
Sewage treatment plant
Value: 100 mg/l

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:
Safety glasses with side-shields conforming to EN166

Hand protection

| | |
|--------------------|------------------|
| Material | : Nitrile rubber |
| Break through time | : 480 min |
| Glove thickness | : 0,40 mm |
| Directive | : DIN EN 374 |
| | Viton (R) |
| | 480 min |
| | 0,70 mm |
| | DIN EN 374 |
| | butyl-rubber |
| | 120 min |
| | 0,70 mm |
| | DIN EN 374 |
| | Neoprene |
| | 60 min |
| | 0,60 mm |
| | DIN EN 374 |

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special work-place conditions (mechanical strain, duration of contact).
Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Flame retardant protective clothing
Workers should wear antistatic footwear.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with filter type A
The filter class for the respirator must be suitable for the maximum expected contaminant concentration

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(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Suitable respiratory equipment:

Self-contained breathing apparatus (EN 133)

Protective measures : Wear suitable protective equipment.
Avoid contact with the skin and the eyes.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|------------------------------|--|
| Appearance | : liquid |
| Colour | : clear |
| Odour | : No data available |
| Odour Threshold | : No data available |
| pH | : No data available |
| pour point | : <= -35 °C Method: ISO 3016 |
| | : No data available |
| Flash point | : >= 210 °C Method: Cleveland open cup |
| Evaporation rate | : No data available |
| Burning rate | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : No data available |
| Vapour density | : No data available |
| Relative density | : No data available |
| Density | : 0,857 g/cm ³ (20 °C) Method: DIN 51757 |
| Bulk density | : No data available |
| Water solubility | : < 0,01 g/l (20 °C, 1.013 mbar) |
| Solubility in other solvents | : No data available |

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| | |
|--|--|
| Partition coefficient: n-octanol/water | : not determined |
| Auto-ignition temperature | : No data available |
| Ignition temperature | : No data available |
| Thermal decomposition | : No data available |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : 71 mm ² /s (40 °C) Method: ASTM D 445 |
| Flow time | : No data available |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |

9.2 Other information

| | |
|-------------------------|---------------------|
| Self-heating substances | : No data available |
| Impact sensitivity | : No data available |
| Surface tension | : No data available |
| | : No data available |
| Molecular weight | : No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is chemically stable.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Incompatible with strong acids and oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

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10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

Components:

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

Acute oral toxicity : LD50 Oral Rat: > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 Rat: >= 5,53 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg
Method: OECD Test Guideline 402

1-Decene, homopolymer, hydrogenated:

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg

Acute inhalation toxicity : LC50 Rat, male and female: > 5,2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg

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bis(nonylphenyl)amine:

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg
Method: OECD Test Guideline 401
Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402
Based on available data, the classification criteria are not met.

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Acute oral toxicity : LD50 Rat: 2.600 mg/kg
Method: European Chemicals Agency - ECHA

Acute dermal toxicity : LD50 Rabbit: > 3.160 mg/kg
Method: OECD Test Guideline 402
Test substance: yes
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

slight irritation
Non persistent irritation

Components:

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

Method: OECD Test Guideline 404
Prolonged skin contact may cause skin irritation and/or dermatitis.
Based on available data, the classification criteria are not met.

1-Decene, homopolymer, hydrogenated:

Result: No skin irritation

bis(nonylphenyl)amine:

Species: Rabbit
Result: No skin irritation

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Method: OECD Test Guideline 404
Test substance: yes
Based on available data, the classification criteria are not met.

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Classification: Causes skin irritation.
Concentration limits
SCL
European Chemicals Agency - ECHA
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Non persistent irritation

Components:

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

Method: OECD Test Guideline 405
Vapours may be irritating to eyes, nose, throat, and lungs.
Based on available data, the classification criteria are not met.

1-Decene, homopolymer, hydrogenated:

Result: No eye irritation

bis(nonylphenyl)amine:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Test substance: yes
Based on available data, the classification criteria are not met.

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Classification: Causes serious eye damage.
Concentration limits
SCL

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European Chemicals Agency - ECHA

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Result: May cause sensitisation of susceptible persons.

Components:

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

Exposure routes: Dermal

Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

1-Decene, homopolymer, hydrogenated:

Result: Did not cause sensitisation on laboratory animals.

bis(nonylphenyl)amine:

Test Method: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Result: negative

Method: OECD Test Guideline 406

Based on available data, the classification criteria are not met.

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Species: Guinea pig

Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Exposure routes: Skin contact

Species: Guinea pig

Classification: Does not cause skin sensitisation.

Result: negative

Method: OECD Test Guideline 406

Germ cell mutagenicity

Product:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- As-sessment : No data available

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Components:

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

Genotoxicity in vitro : Method: OECD Test Guideline 473
Result: negative

: Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Method: OECD Test Guideline 474
Result: negative

Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative

1-Decene, homopolymer, hydrogenated:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

bis(nonylphenyl)amine:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Test species: Mouse
Result: negative

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Product:

This information is not available.

Carcinogenicity - Assessment : No data available

Components:

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

Method: OECD Test Guideline 451
negative

Method: OECD Test Guideline 453

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LUKOIL AVANTGARDE PROFESSIONAL LE 5W-30

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negative

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

1-Decene, homopolymer, hydrogenated:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

bis(nonylphenyl)amine:

This information is not available.

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Product:

Effects on fertility : This information is not available.

Effects on foetal development : This information is not available.

Reproductive toxicity - Assessment : No data available

Components:

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

Effects on fertility : Method: OECD Test Guideline 421
Result: No adverse effects

Effects on foetal development : Method: OECD Test Guideline 421
Result: negative

Reproductive toxicity - Assessment : No toxicity to reproduction

1-Decene, homopolymer, hydrogenated:

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on foetal development.

bis(nonylphenyl)amine:

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This information is not available.

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Product:

No data available

Components:

1-Decene, homopolymer, hydrogenated:

Exposure routes: inhalation (dust/mist/fume), inhalation (vapour)

Target Organs: Mucous membranes, Upper respiratory tract

Assessment: May cause respiratory irritation.

bis(nonylphenyl)amine:

Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

No data available

Components:

bis(nonylphenyl)amine:

Based on available data, the classification criteria are not met.

Repeated dose toxicity

Product:

This information is not available.

Repeated dose toxicity - Assessment : No data available

Components:

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

Method: OECD Test Guideline 408

Method: OECD Test Guideline 410

Method: OECD Test Guideline 411

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Method: OECD Test Guideline 412

No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

Product:

No data available

Components:

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

May be fatal if swallowed and enters airways.

1-Decene, homopolymer, hydrogenated:

May be fatal if swallowed and enters airways.

bis(nonylphenyl)amine:

No data available

Further information

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to : No data available

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the environment

Components:

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

Toxicity to fish : LL50 (Fish): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to algae : NOEL (algae): >= 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to bacteria : NOEL : > 1,93 mg/l
Exposure time: 10 min
Method: DIN 38 412 Part 8

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

1-Decene, homopolymer, hydrogenated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): > 750 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 190 mg/l
Exposure time: 48 h

Toxicity to algae : NOELR (Scenedesmus capricornutum (fresh water algae)): 1.000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

bis(nonylphenyl)amine:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 4 d
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 2 d
Test Type: static test
Test substance: yes
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l
Exposure time: 3 d

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Test Type: static test
Method: OECD Test Guideline 201

Toxicity to bacteria : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 0,1 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 74 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: no
Method: OECD Test Guideline 203
Toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 5,4 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
Toxic to aquatic organisms.

Toxicity to algae : EbC50 (Selenastrum capricornutum (green algae)): 2,1 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
Toxic to aquatic organisms.

12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

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Physico-chemical removability : The product is insoluble and floats on water.
May be separated mechanically in waste water plants.

Impact on Sewage Treatment : No data available

Components:

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

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301B

1-Decene, homopolymer, hydrogenated:

Biodegradability : Result: Inherently biodegradable.

bis(nonylphenyl)amine:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not biodegradable
Biodegradation: 1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Biodegradability : Result: Not biodegradable
Method: OECD Test Guideline 301B

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 10 mg/l
Result: Not readily biodegradable.
Biodegradation: 1,5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Test substance: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : not determined

Components:

1-Decene, homopolymer, hydrogenated:

Bioaccumulation : Bioaccumulation is unlikely.

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bis(nonylphenyl)amine:

Bioaccumulation : Bioconcentration factor (BCF): 1.584,89

Partition coefficient: n-octanol/water : log Pow: > 7,6

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 260
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 9,2

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Bioaccumulation : Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0,9 (23 °C)

12.4 Mobility in soil

Product:

Mobility : Should not be released into the environment.

Components:

bis(nonylphenyl)amine:

Stability in soil : Adsorbs on soil.

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Stability in soil : Adsorbs on soil.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

bis(nonylphenyl)amine:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

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Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Additional ecological information : Should not be released into the environment.
Do not let product enter drains.

Components:

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

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.

bis(nonylphenyl)amine:

Additional ecological information : Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

13 02 06*

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

15 01 10*

SECTION 14: Transport information

14.1 UN number

| | |
|------|-----------------------|
| ADR | : Not dangerous goods |
| RID | : Not dangerous goods |
| IMDG | : Not dangerous goods |
| IATA | : Not dangerous goods |
| ADN | : Not dangerous goods |

14.2 Proper shipping name

ADR : Not dangerous goods

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| | |
|------|-----------------------|
| RID | : Not dangerous goods |
| IMDG | : Not dangerous goods |
| IATA | : Not dangerous goods |
| ADN | : Not dangerous goods |

14.3 Transport hazard class

| | |
|------|-----------------------|
| ADR | : Not dangerous goods |
| RID | : Not dangerous goods |
| IMDG | : Not dangerous goods |
| IATA | : Not dangerous goods |
| ADN | : Not dangerous goods |

14.4 Packing group

| | |
|------|-----------------------|
| ADR | : Not dangerous goods |
| RID | : Not dangerous goods |
| IMDG | : Not dangerous goods |
| IATA | : Not dangerous goods |
| ADN | : Not dangerous goods |

14.5 Environmental hazards

| | |
|------|-----------------------|
| ADR | : Not dangerous goods |
| RID | : Not dangerous goods |
| IMDG | : Not dangerous goods |
| IATA | : Not dangerous goods |
| ADN | : Not dangerous goods |

14.6 Special precautions for user

| | |
|---------|----------------|
| Remarks | : not required |
|---------|----------------|

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

| | |
|---------|---|
| Remarks | : This product is being carried under the scope of MARPOL Annex I |
|---------|---|

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---|---------------------------------|
| Directive 1999/13/EC on the limitation of emissions of volatile organic compounds | : not required under normal use |
|---|---------------------------------|

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances
Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

| | |
|------|---|
| H304 | : May be fatal if swallowed and enters airways. |
| H317 | : May cause an allergic skin reaction. |
| H411 | : Toxic to aquatic life with long lasting effects. |
| H413 | : May cause long lasting harmful effects to aquatic life. |

Full text of other abbreviations

| | |
|-----------------|----------------------------|
| Aquatic Chronic | : Chronic aquatic toxicity |
| Asp. Tox. | : Aspiration hazard |
| Skin Sens. | : Skin sensitisation |

Further information

| | |
|-------------------|---|
| Other information | : Changes since the last version are highlighted in the margin. This version replaces all previous versions. |
|-------------------|---|

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