

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS ADVANCED 10W-40

Version	Revision Date:	Product code:	Date of last issue: 21.10.2015
3.0	20.01.2016	563040	Date of first issue: 21.04.2015
			Print Date: 08.04.2016

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

1.1 Product identifier

Trade name : LUKOIL GENESIS ADVANCED 10W-40
Product code : 563040

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. :			
paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7 265-174-4 01-2119487080-42-0004		$\geq 40 - \leq 60$
distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4 265-090-8 01-2119488706-23-0024		$\geq 20 - \leq 40$
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1 276-738-4 01-2119474889-13-00XX	Asp. Tox.1; H304	≤ 5
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28	Aquatic Chronic4; H413	$\geq 1 - < 2,5$
C14-16-18 Alkyl phenol	01-2119498288-19	Skin Sens.1B; H317 Aquatic Chronic4; H413	$\geq 0,25 - < 1$

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.

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Avoid inhalation of vapour or mist.

If inhaled	: If breathed in, move person into fresh air.
In case of skin contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
In case of eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. 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	: Nausea Vomiting Diarrhoea Pneumonia
Risks	: May cause respiratory tract irritation. Risk of product entering the lungs on vomiting after ingestion. Aspiration may cause pulmonary oedema and pneumonitis. Keep under medical supervision for at least 48 hours.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: No information available.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Dry powder Foam Carbon dioxide (CO ₂)
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.
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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

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.

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- 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 bunded 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, 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.

7.3 Specific end use(s)

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	TMW	20 ml/m3	AT TRK
Further information	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.</p>			
paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	KZW	40 ml/m3	AT TRK
Further information	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.</p>			
distillates (petroleum), solvent-refined heavy par-	64741-88-4	TMW	20 ml/m3	AT TRK

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Further information	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m³ for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.</p>			
distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	KZW	40 ml/m³	AT TRK
Further information	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m³ for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.</p>			
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	baseoil - unspecified	TMW	20 ml/m³	AT TRK
Further information	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m³ for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m³ for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not</p>			

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	known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.			
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	baseoil - unspecified	KZW	40 ml/m3	AT TRK
Further information	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.</p>			

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

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

bis(nonylphenyl)amine : Fresh water
 Value: 0,1 mg/l

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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

8.2 Exposure controls

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 (gas/vapour/aerosol/particulates) that may arise when han-

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dling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Suitable respiratory equipment:
Self-contained breathing apparatus (EN 133)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: brown
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
pour point	: <= -33 °C
	: 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	: 0,856 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
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: No data available
Ignition temperature	: No data available

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Thermal decomposition	: No data available
Viscosity, dynamic	: $\leq 7.000 \text{ mPa.s}$
Viscosity, kinematic	: $80 \text{ mm}^2/\text{s}$ (40 °C)
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

10.6 Hazardous decomposition products

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

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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 : Has a degreasing effect on the skin.

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

Components:

|| paraffin oils (petroleum), catalytic dewaxed heavy:

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg
Method: CONCAWE
Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 Rat: > 5,53 mg/l
Exposure time: 4 h
Method: CONCAWE
Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg
Method: CONCAWE
Information given is based on data obtained from similar substances.

|| 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.

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Skin corrosion/irritation

Product:

slight irritation
Non persistent irritation

Components:

|| paraffin oils (petroleum), catalytic dewaxed heavy:

Result: Mild skin irritation
Method: CONCAWE
Based on available data, the classification criteria are not met.

|| bis(nonylphenyl)amine:

Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
Test substance: yes
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Non persistent irritation

Components:

|| paraffin oils (petroleum), catalytic dewaxed heavy:

Result: No eye irritation
Method: CONCAWE
Information given is based on data obtained from similar substances.

|| 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.

Respiratory or skin sensitisation

Product:

May cause sensitisation by skin contact.

Components:

|| paraffin oils (petroleum), catalytic dewaxed heavy:

Result: negative
Method: CONCAWE

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Information given is based on data obtained from similar substances.

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.

C14-16-18 Alkyl phenol:

Classification: May cause allergic skin reaction.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

Components:

paraffin oils (petroleum), catalytic dewaxed heavy:

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: CONCAWE

Result: negative

bis(nonylphenyl)amine:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Test species: Mouse
Result: negative

Carcinogenicity

Product:

This information is not available.

Carcinogenicity - Assessment : No data available

Components:

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|| paraffin oils (petroleum), catalytic dewaxed heavy:

Species: Mouse
Application Route: Skin contact
Method: CONCAWE
Result: negative

|| distillates (petroleum), solvent-refined heavy paraffinic:

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

|| bis(nonylphenyl)amine:

This information is not 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:

|| paraffin oils (petroleum), catalytic dewaxed heavy:

Effects on foetal development : Application Route: Oral
Method: OECD Test Guideline 421
Result: negative
CONCAWE

|| bis(nonylphenyl)amine:

Effects on fertility : This information is not available.

STOT - single exposure

Product:

No data available

Components:

|| paraffin oils (petroleum), catalytic dewaxed heavy:

No data available

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bis(nonylphenyl)amine:

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

STOT - repeated exposure

Components:

bis(nonylphenyl)amine:

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

Repeated dose toxicity

Product:

No information available.

Repeated dose toxicity - : No data available
Assessment

Components:

paraffin oils (petroleum), catalytic dewaxed heavy:

No observed adverse effect level: Rabbit: 1000 mg/kg
Application Route: Skin contact
Method: OECD Test Guideline 407

No observed adverse effect level: : > 0,28 mg/l
Application Route: Inhalation
(local)

No observed adverse effect level: : > 0,98 mg/l
Application Route: Inhalation
(systemic)

No observed adverse effect level: : > 2000 mg/kg
Application Route: Skin contact
Exposure time: 90 d
Subchronic toxicity

Aspiration toxicity

Product:

No data available

Components:

paraffin oils (petroleum), catalytic dewaxed heavy:

No data available

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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 the environment : No data available

Components:

paraffin oils (petroleum), catalytic dewaxed heavy:

Toxicity to fish : (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: LL50
Method: No information available.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l
Method: No information available.
CONCAWE

LL50 : > 10.000 mg/l
Exposure time: 96 h
Test Type: semi-static test

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Method: No information available.
European Chemicals Agency - ECHA

NOEL : > 10.000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: No information available.
European Chemicals Agency - ECHA

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: No information available.
CONCAWE

Toxicity to bacteria : NOEL (Photobacterium phosphoreum): > 1,93 mg/l
Exposure time: 4 d
Test Type: Respiration inhibition of activated sludge

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,02 mg/l
Species: Daphnia magna (Water flea)

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
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

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12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

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:

paraffin oils (petroleum), catalytic dewaxed heavy:

Biodegradability : Result: not rapidly degradable

Stability in water : The product is insoluble and floats on water.

bis(nonylphenyl)amine:

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

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : not determined

Components:

bis(nonylphenyl)amine:

Bioaccumulation : Bioconcentration factor (BCF): 1.584,89

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

12.4 Mobility in soil

Product:

Mobility : Should not be released into the environment.

Components:

bis(nonylphenyl)amine:

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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).

12.6 Other adverse effects

Product:

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

Components:

bis(nonylphenyl)amine:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: ÖNORM S 2100, key code group 54
	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

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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
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
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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
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SECTION 15: Regulatory information

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

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

Fire Hazard Class : Exempt

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of ma-
jor-accident hazards involving dangerous substances.
Not applicable

Water contaminating class : WGK 2 water endangering
(Germany) Classification according VwVwS, Annex 4.

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.
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product

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information or product specification.