

## LUKOIL GENESIS SPECIAL A5/B5 0W-30

Version	Revision Date:	Product code:	Date of last issue: 10.02.2016
3.0	12.07.2016	563112	Date of first issue: 25.02.2015
			Print Date: 17.09.2019

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

#### 1.1 Product identifier

Trade name : LUKOIL GENESIS SPECIAL A5/B5 0W-30  
Product code : 563112

#### 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 GmbH  
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 : VIZ - Vergiftungszentrale  
24h/7d  
+43 1 406 43 43

### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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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 [%]
<b>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. :</b>			
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25	Asp. Tox.1; H304	<b>&gt;= 70 - &lt; 90</b>
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1 276-738-4 01-2119474889-13-00XX	Asp. Tox.1; H304	<b>&lt; 5</b>
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28	Aquatic Chronic4; H413	<b>&gt;= 1 - &lt; 2,5</b>
C14-16-18 Alkyl phenol	01-2119498288-19	Skin Sens.1B; H317 Aquatic Chronic4; H413	<b>&gt;= 0,25 - &lt; 1</b>

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.

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- 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.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)
- 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

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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.  
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 : To avoid ignition of vapours by static electricity discharge, all

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- fire and explosion                      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 banded 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 temper-  
atures.

### 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.
- 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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
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distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	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 &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &lt; 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes &lt; 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &gt; 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content &gt;= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &gt;= 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), hydrotreated heavy paraffinic	64742-54-7	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 &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &lt; 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes &lt; 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &gt; 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content &gt;= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &gt;= 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 &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &lt; 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes &lt; 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &gt; 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content &gt;= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &gt;= 25%</p>			

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	<p>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>			
<p><b>lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</b></p>	<p><b>baseoil - unspecified</b></p>	<p>KZW</p>	<p>40 ml/m3</p>	<p>AT TRK</p>
<p>Further information</p>	<p>The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &lt; 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes &lt; 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &gt; 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content &gt;= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons &lt; 1%, a n-hexane content &lt; 5% and a cyclo-/isohexanone &gt;= 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:**

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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

### 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.



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- 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 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 : brown
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- pour point :  $\leq -39$  °C  
Method: ISO 3016
- Flash point : No data available
- Flash point :  $\geq 200$  °C  
Method: ISO 2592, 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 : 0,845 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

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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
Thermal decomposition	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	62 mm <sup>2</sup> /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

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## 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

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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.

## 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:

##### **|| distillates (petroleum), hydrotreated heavy paraffinic:**

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

Acute inhalation toxicity : LC50 : > 5 mg/l

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

##### **|| 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:**

**|| distillates (petroleum), hydrotreated heavy paraffinic:**

Species: Rabbit  
Result: Mild skin irritant

**|| 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:**

**|| distillates (petroleum), hydrotreated heavy paraffinic:**

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.

### Respiratory or skin sensitisation

**Product:**

Result: May cause sensitisation of susceptible persons.

**Components:**

**|| distillates (petroleum), hydrotreated heavy paraffinic:**

Result: negative

**|| bis(nonylphenyl)amine:**

Test Method: Maximisation Test

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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:**

### **distillates (petroleum), hydrotreated heavy paraffinic:**

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

### **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:**

### **distillates (petroleum), hydrotreated heavy paraffinic:**

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

### **bis(nonylphenyl)amine:**

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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:

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

Effects on foetal development : Developmental Toxicity: No observed adverse effect level: > 2.000 mg/kg body weight

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

##### **bis(nonylphenyl)amine:**

Effects on fertility : This information is not available.

### STOT - single exposure

#### Product:

No data available

#### Components:

##### **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.

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### Repeated dose toxicity

**Product:**

This information is not available.

Repeated dose toxicity - : No data available  
Assessment

**Components:**

**distillates (petroleum), hydrotreated heavy paraffinic:**

No observed adverse effect level: :  
NOAEL: 1.000 mg/kg  
Application Route: Skin contact  
Subchronic toxicity

### Aspiration toxicity

**Product:**

No data available

**Components:**

**bis(nonylphenyl)amine:**

No data available

### Further information

**Product:**

No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish (Chronic tox- : No data available  
icity)

Toxicity to daphnia and other : No data available  
aquatic invertebrates (Chron-  
ic toxicity)

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

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Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

### Components:

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

Toxicity to fish : LL50 (Fish): > 100 mg/l

Toxicity to fish (Chronic toxicity) : NOEL: 10 mg/l  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l

#### **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

## 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.



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Impact on Sewage Treatment : No data available

### Components:

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

Biodegradability : Result: Not readily 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

### 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:**

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.

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### 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

### 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

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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

### 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

Fire Hazard Class : Exempt

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according to Regulation (EC) No. 1907/2006



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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 major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class (Germany) : WGK 2 water endangering  
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.

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