

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LUKOIL GENESIS SPECIAL C3 5W-40

Version  
1.0

Revision Date:  
07.11.2018

Date of last issue: -  
Date of first issue: 07.11.2018

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

#### 1.1 Product identifier

Trade name : LUKOIL GENESIS SPECIAL C3 5W-40

Product code : 563105

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

Use of the Sub-  
stance/Mixture : Engine oil

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

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### 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 : **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.

## 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	Concentration (% w/w)
baseoil - unspecified*			> 80 - < 100
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28	Aquatic Chronic 4; H413	>= 1 - < 2,5
C14-16-18 Alkyl phenol	01-2119498288-19	Skin Sens. 1B; H317 STOT RE 2; H373	>= 0,1 - < 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.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Wash off with warm water and soap.  
If on clothes, remove clothes.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
  
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.

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### 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 (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.  
Complete suit protecting against chemicals
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## 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.  
First aider needs to protect himself.  
Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation, especially in confined areas.  
The danger areas must be delimited and identified using rele-

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vant 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.  
Prevent product from entering drains.

Local authorities should be advised if significant spillages cannot be contained.

Do not contaminate water.

### 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.

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## 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.  
Use only with adequate ventilation.  
Avoid formation of aerosol.  
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. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. 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 : Avoid contact with skin, eyes and clothing.  
  
Take off all contaminated clothing immediately.

Fire-fighting class : Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

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### 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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
bis(nonylphenyl)amine	Workers	Skin contact	Long-term systemic effects	0,62 mg/kg
		Inhalation	Long-term systemic effects	4,37 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,31 mg/kg
		Inhalation	Long-term systemic effects	1,09 mg/m <sup>3</sup>
		Ingestion	Long-term systemic effects	0,31 mg/kg
			Long-term systemic effects	0,31 mg/kg

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

Substance name	Environmental Compartment	Value
bis(nonylphenyl)amine	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	132000 mg/kg
	Marine sediment	13200 mg/kg
	Soil	263000 mg/kg

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### 8.2 Exposure controls

#### Engineering measures

Provide adequate ventilation.

Apply technical measures to comply with the occupational exposure limits.

#### Personal protective equipment

Eye protection : Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

If splashes are likely to occur, wear:

Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0,40 mm

Material : Viton (R)  
Break through time : 480 min  
Glove thickness : 0,70 mm

Material : butyl-rubber  
Break through time : 120 min  
Glove thickness : 0,70 mm

Material : Neoprene  
Break through time : 60 min  
Glove thickness : 0,60 mm

Remarks : Protective gloves complying with EN 374.

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). 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 : Wear suitable protective equipment.

Respiratory protection : No personal respiratory protective equipment normally re-

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quired.

Apply technical measures to comply with the occupational exposure limits.

Protective measures : Avoid contact with the skin and the eyes.  
Do not breathe vapours or spray mist.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : tan

Odour : No data available

Odour Threshold : No data available

pH : No data available

pour point : -42 °C  
Method: ISO 3016

: No data available

Flash point :  $\geq 220$  °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

Relative vapour density : No data available

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Relative density	:	No data available
Density	:	0,846 g/cm <sup>3</sup> (20 °C) Method: ASTM D 4052
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	< 0,01 g/l (20 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	not determined
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	<= 6.600 mPa.s (-30 °C) Method: DIN 51377
Viscosity, kinematic	:	81,72 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
Refractive index	:	No data available
	:	No data available
Molecular weight	:	No data available
Self-ignition	:	

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is chemically stable.



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### 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 : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

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

Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute dermal toxicity : Based on available data, the classification criteria are not met.

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

##### Components:

##### **baseoil - unspecified\*:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: Aerosol  
Method: OECD Test Guideline 403  
Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Information given is based on data obtained from similar substances.

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

Acute oral toxicity : LD50 (Rat): > 5000 mg/kg bw  
Method: OECD Test Guideline 401  
Test substance: Read-across (Analogy)

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Test substance: Read-across (Analogy)

### **Skin corrosion/irritation**

#### **Product:**

slight irritation

Non persistent irritation

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

#### **Components:**

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Test substance: yes

### **Serious eye damage/eye irritation**

#### **Product:**

Non persistent irritation

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

#### **Components:**

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

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Test substance: yes

### **Respiratory or skin sensitisation**

#### **Product:**

Exposure routes: Skin contact

Result: May cause sensitisation of susceptible persons.

Exposure routes: Inhalation

No known sensitising effect.

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

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### Components:

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

Test Type: Maximisation Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative  
Test substance: Read-across (Analogy)

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

### Components:

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

Genotoxicity in vitro : Result: negative  
Test substance: Read-across (Analogy)

Genotoxicity in vivo : Species: Mouse  
Result: negative  
Test substance: Read-across (Analogy)

### **Carcinogenicity**

#### Product:

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

### Components:

#### **baseoil - unspecified\*:**

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

### **Reproductive toxicity**

#### Product:

Effects on fertility : This information is not available.

Effects on foetal develop- : This information is not available.

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ment

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

### STOT - single exposure

**Product:**

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

### STOT - repeated exposure

**Product:**

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

### Aspiration toxicity

**Product:**

No aspiration toxicity classification

### Further information

**Product:**

No data available

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## 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

Short-term (acute) aquatic hazard : Based on available data, the classification criteria are not met.

Long-term (chronic) aquatic : Based on available data, the classification criteria are not met.

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hazard

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

### **Components:**

#### **baseoil - unspecified\*:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

NOEL (Pimephales promelas (fathead minnow)): >= 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

NOEL (Daphnia magna (Water flea)): >= 1.000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Information given is based on data obtained from similar substances.

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

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- Test substance: Read-across (Analogy)  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: yes  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Read-across (Analogy)  
Method: OECD Test Guideline 201

### 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:

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

- Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not biodegradable  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Test substance: Read-across (Analogy)

### 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  
Method: No information available.
- Partition coefficient: n- : log Pow: > 7,6

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octanol/water

### 12.4 Mobility in soil

**Product:**

Mobility : Should not be released into the environment.

**Components:**

**bis(nonylphenyl)amine:**

Mobility : After release, adsorbs onto 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..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Do not let product enter drains.

Should not be released into the environment.

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## 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.  
Dispose of in accordance with local regulations.

15 01 10\*

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

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### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : not required

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

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

No data available

## SECTION 16: Other information

### Full text of H-Statements

H317 : May cause an allergic skin reaction.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentra-



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tion; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information : base oil - unspecified\*  
CAS-No.  
REACH No.  
64742-70-7/01-2119487080-42;72623-87-1/01-2119474889-13;64742-54-7/01-2119484627-25;72623-86-0/01-2119474878-16  
Changes since the last version are highlighted in the margin.  
This version replaces all previous versions.

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