

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## LUKOIL AVANTGARDE ULTRA PLUS 10W-40

Version	Revision Date:	Product code:	Date of last issue: -
1.0	20.10.2016	567820	Date of first issue: 20.10.2016
			Print Date: 30.11.2016

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

#### 1.1 Product identifier

Trade name : LUKOIL AVANTGARDE ULTRA PLUS 10W-40  
Product code : 567820

#### 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)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning



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Hazard statements	: H317 H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	: P102 <b>Prevention:</b> P261  P273 P280 <b>Response:</b> P333 + P313  P362 + P364  <b>Disposal:</b> P501	Keep out of reach of children.  Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves.  If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse.  Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

### 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. :			
distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4 265-090-8 01-2119488706-23-0024		>= 40 - <= 60



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paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7 265-174-4 01-2119487080-42-0004		$\geq 20 - \leq 40$
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28	Skin Sens.1B; H317	$\geq 1 - < 10$
Phosphorodithioic acid, mixed O,O-bis(1,3- dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8 283-392-8 01-2119493626-26	Aquatic Chronic2; H411	$\geq 1 - < 2,5$
Phenol, dodecyl-, branched	121158-58-5 310-154-3 01-2119513207-49	Eye Irrit.2; H319 Repr.2; H361 Skin Irrit.2; H315 Aquatic Acute1; H400 Aquatic Chronic1; H410	$\geq 0,1 - < 0,25$
O,O,O-triphenyl phos- phorothioate	597-82-0 209-909-9	Repr.2; H361fd Aquatic Chronic4; H413	$\geq 0,1 - < 0,25$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : First aider needs to protect himself.  
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



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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.

## 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 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 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.  
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 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 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 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

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

No data available

### 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



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- 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 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



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Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
pour point	: $\leq -30$ °C Method: ISO 3016
	: No data available
Flash point	: $\geq 200$ °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	: 0,861 g/cm <sup>3</sup> (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
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 88 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.



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### 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.

## 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



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Acute dermal toxicity : Has a degreasing effect on the skin.

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

### Components:

#### **distillates (petroleum), solvent-refined heavy paraffinic:**

Acute oral toxicity : LD50 Oral Rat: > 5.000 mg/kg  
Method: CONCAWE

Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg  
Method: CONCAWE

#### **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.

### **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.

#### **Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts:**

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



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SCL

European Chemicals Agency - ECHA

### 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.

##### **Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts:**

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

SCL

European Chemicals Agency - ECHA

### Respiratory or skin sensitisation

#### Product:

May cause sensitisation by skin contact.

#### Components:

##### **paraffin oils (petroleum), catalytic dewaxed heavy:**

Result: negative

Method: CONCAWE

Information given is based on data obtained from similar substances.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- As-sessment : No data available

#### Components:

##### **paraffin oils (petroleum), catalytic dewaxed heavy:**

Genotoxicity in vivo : Test Type: Micronucleus test  
Test species: Mouse  
Method: CONCAWE  
Result: negative



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### Carcinogenicity

#### Product:

This information is not available.

Carcinogenicity - Assessment : No data available

#### Components:

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

Species: Mouse

Application Route: Skin contact

Method: CONCAWE

Result: negative

### 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

### STOT - single exposure

#### Product:

No data available

#### Components:

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

No data available



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### STOT - repeated exposure

No data available

### 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

### 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  
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

##### **Components:**

##### **distillates (petroleum), solvent-refined heavy paraffinic:**

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

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

##### **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  
Method: No information available.  
European Chemicals Agency - ECHA



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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)

### **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l  
Exposure time: 4 d

LC50 (Fish): > 10.000 mg/l  
Exposure time: 4 d

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 1.000 mg/l  
Exposure time: 2 d

Toxicity to bacteria : EC50 (activated sludge): > 10.000 mg/l  
Exposure time: 0,1 d

### **Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l  
Exposure time: 4 d

NOEC (Oncorhynchus mykiss (rainbow trout)): 1,8 mg/l  
Exposure time: 4 d

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 23 mg/l  
Exposure time: 2 d

NOEC (Daphnia (water flea)): 10 mg/l  
Exposure time: 2 d

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 21 mg/l  
Exposure time: 3 d



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NOEC (Selenastrum capricornutum (green algae)): 10 mg/l  
Exposure time: 3 d

### Phenol, dodecyl-, branched:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 10

## 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.

#### Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Biodegradability : Biodegradation: 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : not determined

## 12.4 Mobility in soil

### Product:

Mobility : Should not be released into the environment.

## 12.5 Results of PBT and vPvB assessment

### Product:



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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
13 02 08\*

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
15 01 10\*

## SECTION 14: Transport information

### 14.1 UN number

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

### 14.2 Proper shipping name

ADR : Not dangerous goods  
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



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			Print Date: 30.11.2016

### 14.4 Packing group

ADR	: Not dangerous goods
RID	: Not dangerous goods
IMDG	: Not dangerous goods
IATA	: Not dangerous goods
ADN	: Not dangerous goods
Special Provisions	: Packed / Inland tanker

### 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

Take note of Dir 94/33/EC on the protection of young people at work. : applicable

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. : applicable

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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H361	: Suspected of damaging fertility or the unborn child.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

### Further information

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