

Version	Revision Date:	Product code:	Date of last issue: -
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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifier

Trade name	:	LUKOIL AVANTGARDE	SAE 20W-20
Product code	:	567520	

## 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	
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: +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)

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 statements	: H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	: P102 Prevention:	Keep out of reach of children.
	P273 <b>Disposal:</b>	Avoid release to the environment.
	P501	Dispose of contents/ container to an ap- proved waste disposal plant.



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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. :				
distillates (petroleum), hy- drotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-0035		>= 30 - <= 50	
paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7 265-174-4 01-2119487080-42-0004		>= 20 - <= 40	
distillates (petroleum), sol- vent-refined hydrotreated heavy, hydrogenated	94733-08-1 305-588-5 01-2119527818-28-0000		>= 20 - <= 30	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	68457-79-4 270-608-0 01-2119493628-22	Aquatic Chronic2; H411	>= 1 - < 2,5	
phenol, dodecyl-, branched	121158-58-5 310-154-3 01-2119513207-49	Eye Irrit.2; H319 Repr.2; H361f Skin Irrit.2; H315 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,1 - < 0,25	

For explanation of abbreviations see section 16.



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# **SECTION 4: First aid measures**

4.1 Description of first aid measures			
General advice	: First aider needs to protect himself.		
If inhaled	: If breathed in, move person into fresh air. Move to fresh air in case of accidental inhalation of vapours.		
In case of skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. If on clothes, remove clothes.		
In case of eye contact	<ul> <li>Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>		
If swallowed	<ul> <li>Do NOT induce vomiting.</li> <li>Obtain medical attention.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>		
4.2 Most important symptoms an	nd 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 (CO2)
Unsuitable extinguishing media	: High volume water jet



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## 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

: 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-
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.



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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. 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. To avoid ignition of vapours by static electricity discharge, all Advice on protection against 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 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. Fires involving liquids or liquid containing substances. Also Fire-fighting class includes substances which become liquid at elevated temperatures. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage · Keen tightly closed

areas and containers	:	Keep fightly closed. Keep in a well-ventilated place. To prevent leaks or spillages from spreading, provide a suita- ble liquid retention system.
Further information on stor- age 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 prod- ucts. Do not store together with oxidizing and self-igniting products. Do not store together with explosives, oxidizing agents, organ- ic peroxides and infectious products. Do not store together with acids and ammonium salts.
Other data	:	Keep away from direct sunlight.



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# 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.

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 Break through time Glove thickness Directive	<ul> <li>Nitrile rubber</li> <li>480 min</li> <li>0,40 mm</li> <li>DIN EN 374</li> <li>Viton (R)</li> <li>480 min</li> <li>0,70 mm</li> <li>DIN EN 374</li> <li>butyl-rubber</li> <li>120 min</li> <li>0,70 mm</li> <li>DIN EN 374</li> <li>Neoprene</li> <li>60 min</li> <li>0,60 mm</li> </ul>
Remarks	<ul> <li>DIN EN 374</li> <li>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</li> </ul>



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			ut also on other quality features and is different ducer to the other.	
Skir	and body protection		ant protective clothing Ild wear antistatic footwear.	
Res	piratory protection	proved filter. Respirator wi The filter clas imum expecte (gas/vapour/a dling the proo contained bre Suitable resp	<ul> <li>In the case of vapour formation use a respirator with an approved filter.</li> <li>Respirator with filter type A</li> <li>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.</li> <li>Suitable respiratory equipment:</li> <li>Self-contained breathing apparatus (EN 133)</li> </ul>	
Prot	ective measures	Avoid contact	e protective equipment. t with the skin and the eyes. cordance with good industrial hygiene and safety	

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light brown
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
pour point	: <= -30 °C Method: ISO 3016
	: No data available
Flash point	: >= 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



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Vapo	ur density	: No data availat	ble	
Relati	ve density	: No data availat	ble	
Densi	ty	: 0,868 g/cm3 (20 °C) Method: DIN 51757		
Bulk	density	: No data availat	ble	
Wate	r solubility	: <0,01 g/l (20	°C, 1.013 mbar)	
Solub	ility in other solvents	: No data availat	ble	
	ion coefficient: n- ol/water	: not determined	I	
Auto-	ignition temperature	: No data available		
Ignitic	on temperature	: No data available		
Therm	nal decomposition	: No data available		
Visco	sity, dynamic	: No data available		
Visco	sity, kinematic	: 42 mm2/s (40 Method: ASTM		
Flow	time	: No data availat	ble	
Explo	sive properties	: Not explosive		
Oxidi	zing properties	: The substance	e or mixture is not classified as oxidizing.	
9.2 Other	information			
Self-h	eating substances	: No data availat	ble	
Impac	ct sensitivity	: No data available		
Surfac	ce tension	: No data availat	ble	
		: No data availat	ble	
Molec	cular weight	: No data availat	ble	

# **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	: None known.
10.5 Incompatible materials	

Materials to avoid : Strong acids and oxidizing agents

# **10.6 Hazardous decomposition products**

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

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

## Components:

distillates (petroleum), hydro Acute oral toxicity	<ul> <li>treated heavy paraffinic:</li> <li>LD50 Oral Rat: &gt; 5.000 mg/kg Method: CONCAWE</li> </ul>
Acute inhalation toxicity	: LC50 Rat: > 5,53 mg/l Exposure time: 4 h Method: CONCAWE
Acute dermal toxicity	: LD50 Dermal Rat: > 2.000 mg/kg



#### LUKOIL AVANTGARDE SAE 20W-20 Version Revision Date: Product code: Date of last issue: -1.0 13.10.2016 567520 Date of first issue: 13.10.2016 Print Date: 30.11.2016 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(iso-Bu and pentyl) esters, zinc salts:

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

## Serious eye damage/eye irritation

#### Product:

Non persistent irritation

## Components:

paraffin oils (petroleum), catalytic dewaxed heavy:



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

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:

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

## Respiratory or skin sensitisation

## Product:

No known sensitising effect.

## **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:

paraffin oils (petroleum), cata	lytic dewaxed heavy:
Components:	
Germ cell mutagenicity- As- sessment	: No data available
Genotoxicity in vivo	: No data available
Genotoxicity in vitro	: No data available

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

# Carcinogenicity

## Product:

This information is not available.



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Carci ment	nogenicity - Assess-	: No data availabl	e
Com	ponents:		
	lates (petroleum), hyc nogenicity - Assess-	: Classified base	affinic: d on DMSO extract content < 3% (Regulation , Annex VI, Part 3, Note L)
Spec Applie Methe	ffin oils (petroleum), c ies: Mouse cation Route: Skin cont od: CONCAWE lt: negative	-	avy:
	nogenicity - Assess-	: Classified base	eated heavy, hydrogenated: d on DMSO extract content < 3% (Regulation , Annex VI, Part 3, Note L)
Reproduc	tive toxicity		
Prod	uct:		
Effect	ts on fertility	: This information	is not available.
Effect ment	ts on foetal develop-	: This information	is not available.
Repro sessr	oductive toxicity - As- ment	: No data availabl	e
<u>Com</u>	ponents:		
	ffin oils (petroleum), c ts on foetal develop-	: Application Rou	ite: Oral Test Guideline 421
STOT - si	ngle exposure		
Prod	uct:		
No da	ata available		

## Components:

paraffin oils (petroleum), catalytic dewaxed heavy: No data available



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## STOT - repeated exposure

### Product:

No data available

#### Repeated dose toxicity

#### Product:

This information is not 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 tox- icity)	: No data available
Toxicity to daphnia and other aquatic invertebrates (Chron-ic 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
<u>Components:</u> distillates (petroleum), hydro Toxicity to daphnia and other aquatic invertebrates	treated heavy paraffinic: : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Method: CONCAWE
Toxicity to algae	<ul> <li>NOEL (Pseudokirchneriella subcapitata (green algae)): &gt; 100 mg/l</li> <li>Exposure time: 72 h</li> <li>Test Type: Growth inhibition</li> <li>Method: CONCAWE</li> </ul>
paraffin oils (petroleum), cat	alytic dewaxed heavy:
Toxicity to fish	<ul> <li>(Pimephales promelas (fathead minnow)): &gt; 100 mg/l Exposure time: 96 h Test Type: LL50 Method: No information available.</li> </ul>
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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		to daphnia and other invertebrates	:	EC50 (Daphnia ( Exposure time: 4	water flea)): 23 mg/l 8 h
				NOEC (Daphnia Exposure time: 4	(water flea)): 10 mg/l 8 h
	Toxicity	to algae	:	EC50 (Scenedes Exposure time: 7	mus quadricauda (Green algae)): 24 mg/l 2 h
				NOEC (Scenedes Exposure time: 7	smus quadricauda (Green algae)): 1,8 mg/l 2 h
	Toxicity	to bacteria	:	EC50 : > 10.000 Exposure time: 0	•
		to daphnia and other invertebrates (Chron- ty)	:	EC50: 0,8 mg/l Exposure time: 2 Species: Daphnia	
				EC50: 0,4 mg/l Exposure time: 2 Species: Daphnia	
	phenol	, dodecyl-, branched			
	Toxicity	•		LC50 (Fat head r Exposure time: 9	, -
		to daphnia and other invertebrates	:	EC50 (Daphnia( Exposure time: 4	water flea)): 0,037 mg/l 8 h
				EC50 (Mysidopsi Exposure time: 9	s bahia (opossum shrimp)): > 0,58 mg/l 6 h
	Toxicity	to algae	:	EC50 (green alga Exposure time: 4	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity	to bacteria	:	EC50 : > 1.000 n Exposure time: 0	
		to daphnia and other invertebrates (Chron- ty)	:	EC50: 0,0079 mg Exposure time: 2 Species: Daphnia	1 d
				NOEC: 0,0037 m Exposure time: 2 Species: Daphnia	1 d
	M-Facto	or (Chronic aquatic	:	10	



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toxicity)

# 12.2 Persistence and degradability

Product:			
Biodegradability	: Result: Not readily biodegradable.		
Physico-chemical removabil- ity	: The product is insoluble and floats on water. May be separated mechanically in waste water plants		
Impact on Sewage Treat- ment	: No data available		
Components:			
paraffin oils (petroleum), cata	alytic dewaxed heavy:		
Biodegradability : Result: not rapidly degradable			
Stability in water	: The product is insoluble and floats on water.		
.3 Bioaccumulative potential			
Product:			
Bioaccumulation	: No data available		
Partition coefficient: n- octanol/water	: not determined		

Com	ponents:	

phenol, dodecyl-, branched: Bioaccumulation	:	Bioconcentration factor (BCF): 794,33
Partition coefficient: n- octanol/water	:	log Pow: 7,14

# 12.4 Mobility in soil

Ρ	ro	d	uct:

Mobility	:	Should not be released into the environment.
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# 12.5 Results of PBT and vPvB assessment

Product:
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: 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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# 12.6 Other adverse effects

## Product:

Additional ecological infor-	:	Should not be released into the environment.
mation		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 05*
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.
	15 01 10*

# **SECTION 14: Transport information**

# 14.1 UN number

ADR RID IMDG IATA ADN	<ul> <li>Not dangerous goods</li> </ul>
14.2 Proper shipping name	
ADR RID IMDG IATA ADN	<ul> <li>Not dangerous goods</li> </ul>
14.3 Transport hazard class	
ADR RID IMDG IATA ADN	<ul> <li>Not dangerous goods</li> </ul>
14.4 Packing group	
ADR RID IMDG	<ul><li>Not dangerous goods</li><li>Not dangerous goods</li><li>Not dangerous goods</li></ul>



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IATA ADN Spec	ial Provisions	: Not dangerous : Not dangerous : Packed / Inlan	goods	
14.5 Envir	onmental hazards			
ADR RID IMDG IATA ADN	F	<ul> <li>Not dangerous</li> <li>Not dangerous</li> <li>Not dangerous</li> <li>Not dangerous</li> <li>Not dangerous</li> <li>Not dangerous</li> </ul>	goods goods goods	
14.6 Special precautions for user				
Rema	arks	: not required		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
Rema	arks	: This product is Annex I	being carried under the scope of MARPOL	

# **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 : not required under normal use volatile organic compounds

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of majoraccident 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

## 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.
H319	: Causes serious eye irritation.
H361f H400	<ul><li>Suspected of damaging fertility.</li><li>Very toxic to aquatic life.</li></ul>

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H410 H411		•	equatic life with long lasting effects. ic life with long lasting effects.
Full to	ext of other abbrevia	tions	
Aquat	ic Acute	: Acute aquatic	toxicity
Aquat	ic Chronic	: Chronic aquatic toxicity	
Eye Ir	rit.	: Eye irritation	
Repr.		: Reproductive	toxicity
Skin I	rrit.	: Skin irritation	
Furth	er information		
Other	information	•	e the last version are highlighted in the margin. eplaces all previous versions.

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