# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006 (REACH)

## Florin IK Spray

Article No. Version	0086	Florin IK-Spray 9 (03.09.20)	Issue date: Page	07.09.20 1/ 10
	SECTIC	N 1: Identification of the s	ubstance/mixture and of the	
		company/unc		
.1 Product id	dentifier			
Trade name	Florin IK Sp	pray		
.2 Relevant	identified uses of	the substance or mixture and uses a	advised against	
	ral use		<u> </u>	
	release pro	ducts		
Uses	advised against			
<u>.3 Details of</u>	T <b>the supplier of the</b> Flore-Chem Sauerlands D - 56761 I info@flore.d	traße 7 Masburg		
.4 Emergeno	cy telephone numb	<u>per</u>		
Emergency Information		FLORE-Chemie GmbH Monday to Thursday: 8 Friday: 8.00 a.m 2.3	/ Tel. +49 (0) 2653 91459 12 8 a.m 5 p.m. 0 p.m.	
	Phone #			
		SECTION 2: Hazard	s identification	

## 2.1 Classification of the substance or mixture

## Classification according to EC regulation 1272/2008 (CLP)

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects. Asp. Tox. 1; H304 May be fatal if swallowed and enters airways. Eye Irrit. 2; H319 Causes serious eye irritation. Flam. Aerosol 1; H222 Extremely flammable aerosol. Flam. Aerosol 1; H229 Pressurised container: May burst if heated. STOT RE 2; H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is con

## 2.2 Label elements

## **Labelling**



Signal word

Danger

## Hazard components for labelling

Butane - propane - zinc dialkyldithiophosphate - Highly refined mineral oil - Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cycl. compounds, < 2% aromates - Hydrocarbon mixture, liquid - Hydrocarbon mixture, liquid

## Hazard statements

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	H229 H304 H373 repeat expose	Pressuri May be May cau ted expos ure cause		airways. te all organs affected, if known) through prolonge if it is conclusively proven that no other routes of		
<u>Safety precaut</u>	P210 smokin P211 P260 P273 P314	ng. Do not s Do not t Avoid re Get med	spray on an open flame or oth breathe dust/fume/gas/mist/v elease to the environment. dical advice/attention if you fe	/apours/spray.	D	

## 2.3 Other hazards

No information available.

## **SECTION 3: Composition / information on ingredients**

## 3.1 Substances

#### Chemical characterisation

Preparations of hydrocarbons / petroleum products with additives.

CAS-Number	
EINECS / ELINCS / NLP	
EU index number	
Customs tariff number	
REACH registration No.	
RTECS-no.	
Hazchem-Code	
CI-Number	

## 3.2 Mixtures

Substance 1Hochraffiniertes Mineralöl:45 % - 50 %CAS-Nummer:64742-56-9EINECS / ELINCS / NLP:265-159-2REACH-Registrierungsnr.:01-2119480132-48

Einstufung gemäß EG-Verordnung 1272/2008 (CLP): Asp. Tox. 1; H304

#### Substance 3

Kohlenwasserstoffe, C11-C14, N-Alkane, Iso-Alkane, cyclische Verbindungen, < 2% Aromaten: 10 % - 15 % CAS-Nummer: 64742-47-8 EINECS / ELINCS / NLP: 926-141-6 REACH-Registrierungsnr.: 01-2119456620-43

Einstufung gemäß EG-Verordnung 1272/2008 (CLP): Asp. Tox. 1; H304

#### Substance 5

Propan: 1 % - 10 % CAS-Nummer: 74-98-6 EU-Indexnummer: 601-003-00-5 EINECS / ELINCS / NLP: 200-827-9 REACH-Registrierungsnr.: 01-2119486944-21-xxxx

Einstufung gemäß EG-Verordnung 1272/2008 (CLP): Compr. Gas; H280 / Flam. Gas 1; H220

#### Substance 2

Butan: 20 % - 25 % CAS-Nummer: 106-97-8 EU-Indexnummer: 601-004-00-0 EINECS / ELINCS / NLP: 203-448-7 REACH-Registrierungsnr.: 01-2119474691-32-xxxx

Einstufung gemäß EG-Verordnung 1272/2008 (CLP): Compr. Gas; H280 / Flam. Gas 1; H220

#### Substance 4

Kohlenwasserstoffgemisch, flüssig: 1 % - 10 % EINECS / ELINCS / NLP: 919-164-8 REACH-Registrierungsnr.: 01-2119473977-17

Einstufung gemäß EG-Verordnung 1272/2008 (CLP): Aquatic Chronic 3; H412 / Asp. Tox. 1; H304 / nicht erforderlich; EUH066 / STOT RE 1; H372

#### Substance 6

Zinkdialkyldithiophosphat: <= 1 % CAS-Nummer: 85940-28-9 EINECS / ELINCS / NLP: 288-917-4

Einstufung gemäß EG-Verordnung 1272/2008 (CLP): Aquatic Chronic 2; H411 / Eye Dam. 1; H318 / Skin Irrit. 2; H315

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2,6-Di-tert-butyl-p-kresol: <= 1 % CAS-Number: 128-37-0 EINECS / ELINCS / NLP: 204-881-4 REACH registration No.: 01-2119565113-46 Classification according to Directive 67/548/EEC or 1999/45/EC: Nature of Hazard: N / R phrase(s): 50/53 Classification according to EC regulation 1272/2008 (CLP): Aquatic Acute 1; H400 / Aquatic Chronic 1; H410

#### Additional information

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## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

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#### In case of inhalation

No special measures are required.

#### In case of skin contact

Thoroughly wash skin with soap and water. Change contaminated clothing. Immediately get medical attention.

#### After eye contact

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek medical attention if irritation persists.

#### After swallowing

Immediately get medical attention. Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious.

## 4.2 Most important symptoms and effects, both acute and delayed

No information available.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

#### Suitable extinguishing media

Use extinguishing material as appropriate for the surrounding area.

Extinguishing media which must not be used for safety reasons

## 5.2 Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.

#### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Do not breathe gas/fumes/vapour/spray.

## 6.2 environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered

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material as prescribed in the section on waste disposal.

Additional information

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## 6.4 Reference to other sections

Disposal: see section 13 SECTION 7: Handling and storage SECTION 8: Exposure controls/personal protection

**SECTION 7: Handling and storage** 

## 7.1 Precautions for safe handling

## Advices on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Precautions against fire and explosion

Take action to prevent static discharges. Keep away from sources of ignition. Vapours can form explosive mixtures with air.

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## 7.2 Conditions for safe storage, including any incompatibilities

#### **Requirements for storerooms and containers**

Observe TRG 300 No. 2.8 - 2.9 and 6.1 - 6.4.4. Do not expose to temperatures above 50 °C. Warehousing of more than 500 aerosol cans must be notified according to \$ 24 of the German Pressure Vessel Regulation. Keep only in the original container. Protect from heat and direct sunlight. Store in a cool dry place. Vorbeugende Maßnahmen gegen elektrostatische Aufladungen treffen.

Hints on joint storage None known Storage class 2B

Further details

## 7.3 Specific end use(s)

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## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

DEU	WEL (Europe)	600,000	mg/m³	Kohlenwasserstoffgemische, flüssig
DEU	WEL-STEL (vapour)	10,000	mg/m³	Ölnebel

#### 106-97-8 Butane

D	MWC (TRGS 900)	1.000,000	ml/m³ = pp	4(II);DFG
D	MWC (TRGS 900)	2.400,000	mg/m3	-

74-98-6 propane

D MWO	NC (TRGS 900)	1.000,000	ml/m³ = pp	4(II);DFG
D MWO	NC (TRGS 900)	1.800,000	mg/m3	-

## 128-37-0 2,6-Di-tert-butyl-p-kresol

DEII		10.000	1.2	
DEU	WEL	10,000	ma/m³	E, 4(II)
		.,	J.	

#### 8.2 Exposure controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Occupational exposure controls

## Respiratory protection

Use respiratory protection whenever ventilation is inadequate.

## Hand protection

protective gloves Material nitrile DIN EN 374, layer thickness 1,5 mm, penetration time > 480 min Material Viton DIN EN 374, layer thickness 0,7 mm, penetration time > 480 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Wear suitable protection       and region         General protection and hygiene measure       Suitable protection         General protection and hygiene measure       Suitable protection         Second protection       and region         Suitable protection       Subjection         Subjection and hygiene measure         Subjection protection programme         Subjective Subjection programme         Subjective Subjection programme         Subjective Subjective Subjection programme         Subjective Subjective Subjection programme         Subjective Subjectiv	/ersion	9	( 03.09.20 )			Page	5/	10
Wear suitable protection and hygine measures When using do not ead, drink, smoke, smiff. Wash hands and face before breaks and after work and take a shower if necessary. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.         SECTION 9: Physical and chemical properties         Structure structur	Wear eye/face p	rotection.						
SECTION 9: Physical and chemical properties         Section of the second		otective clothing.						
SECTION 9: Physical and chemical properties         Section of the second	General protection an When using do n necessary. Remo	<b>d hygiene measure</b> ot eat, drink, smol ve contaminated, s	<b>s</b> ke, sniff. Wash h saturated clothin	ands and fac g immediatel	ce before breaks ly. Draw up and	and after work and take a shower if observe skin protection programme.		
Form CloarAerosol clearColourclearOdourcharacteristicInitial boiling point—Initial boiling point—Initial boiling range—Welting point/freezipoint—Belting point/freezipoint—Flash point/flash point range—Grace—Flash point/fineteripoint—Pattering threezipoint—Auto-ingrition temperatur—Go Vol-%Not XidisingExplosion limits—Noto-Griticient:—The product—Agner of explosion—Panager of explosion—Yapour pressureQold Joint—Agade of explosion—Phralue—Qiscosity dynamic ur—Niccosity dynamic urIs man²/sIs form?Is man²/sNiccosity kinemati urIs man²/sNiccosity kin								
Colour Odourdear oharacteristicFileminmaxInitial boiling rong	0.1 information on ba	asic physical and	chemical pro	perties				
odour odourcharacteristicInitial boiling point and boiling rangeHelting point/freezing pointHelting point/freezing pointFlash point/freezing pointFlash point/freezing pointHelting point/freezing pointHelting point/freezing pointFlash point/freezing pointHaut-ignition temperatureAuto-ignition temperatureAuto-ignition temperatureComposition temperatureHer composition temperatureComposition temperatureHer composition temperatureComposition temperatureHer composition temperature	Form	Aerosol						
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boiling range           Melting point/frash point range           Flash point/flash point range           Flash point/flash point range           Flash point/flash point range           Flash point/flash point range			min	max				
Melting point/freezing point           Flash point/flash point range           Flammability           Ignition temperature           Auto-ignition temperature        not oxidising         Explosion limits       0,6 Vol-%       7 Vol-%         Refraction index           Danger of explosion           Vapour pressure            0,84 g/ml            Phr value            Viscosity dynamic of            Viscosity kinematic of       15 mm²/s	Initial boiling point ar	nd						
Melting point/freezing point           Flash point/flash point range           Flammability           Ignition temperature           Auto-ignition temperature        not oxidising         Explosion limits       0,6 Vol-%       7 Vol-%         Refraction index           Danger of explosion           Vapour pressure            0,84 g/ml            Phr value            Viscosity dynamic of            Viscosity kinematic of       15 mm²/s	boiling range							
Flash point range           Flammability           Ignition temperature           Auto-ignition temperature        not oxidising         Explosion limits       0,6 Vol-%       7 Vol-%         Refraction index       0,6 Vol-%       7 Vol-%         Partition coefficient: n-octanol/water           The product has not been tested.       Danger of explosion          Vapour pressure            0,84 g/ml            PH value            Viscosity dynamic up to       15 mm²/s           15 mm²/s		g point						
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Refraction indexPartition coefficient: n-octanol/waterThe product has not been tested.The product has not been tested.Danger of explosionVapour pressure<			0.6 Vol-%	7 Vol-%				
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Viscosity dynamic up toViscosity kinematic of15 mm²/s	•							
Viscosity dynamic up toViscosity kinematic of15 mm²/s	Viscosity dynamic of							
		to						
	Viscosity kinematic of		15 mm²/s					
	-							

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## 9.2 Other information

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## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2 Chemical stability

Product is stable under normal storage conditions.

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## 10.3 Possibility of hazardous reactions

No known hazardous reactions.

## 10.4 Conditions to avoid

Keep at temperature not exceeding 50 °C. Heating causes rise in pressure with risk of bursting.

## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## **Toxicological tests**

64742-56-9 Highly refined mineral oil

oral	LD50	Rat	5000,000	mg/kg	-
dermal	LD50	Rabbit	5000,000	mg/kg	-

## **Toxicological tests**

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106-97-8 Butane					
Acute toxicity, inhalative	LC50	Rat	658000,000	mg/m³	4h

## Toxicological tests

64742-47-8 Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cycl. compounds, < 2% aromates

oral	LD50	Rat	5000,000	mg/kg	-
inhalative	LC50	Rat	5000,000	mg/l	-
dermal	LD50	Rabbit	5000,000	mg/kg	-

## **Toxicological tests**

Hydrocarbon mixture, liquid

oral	LD50	Rat	5000,000	mg/kg	-
inhalative	LC50	Rat	13,100	mg/l	4h
dermal	LD50	Rabbit	2920,000	mg/kg	-

## **Toxicological tests**

85940-28-9	zinc dialkyldithiopho	osphate				
	oral	LD50	Rat	2000,000	mg/kg	-

## **Toxicological tests**

128-37-0 2,6-Di-tert-butyl-p-kresol

oral	LD50	Rat		2930,000	mg/kg	-		
dermal	LD50	Rabbit		2000,000	mg/kg	-		
SECTION 11: Toxicological information								

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Acute toxicity

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In case of inhalation

After swallowing

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In case of skin contact

---After eye contact

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## Practical experience

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## General remarks

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture

## Ecotoxicological effects

64742-56-9 Highly refined mineral oil

acute fish toxicity LC50 Daphnia magna (Big wate		100,000	mg/l	-
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## Ecotoxicological effects

Hydrocarbon mixture, liquid

acute fish toxicity	LC50	Oncorhynchus mykiss	100,000	mg/l	96h
Aquatic toxicity	EC50	Daphnia magna (Big water	22,000	mg/l	48h

#### Ecotoxicological effects 128-37-0 2,6

2,6-Di-tert-butyl-p-kresol

Bacterial toxicity:	not required	not required	0,500	mg/l	-
acute fish toxicity	LC50	Carassius auratus (goldfi	0,200	mg/l	96h
Acute (short-term) algae toxicity	ErC50:	Algae	0,800	mg/l	96h

## **SECTION 12: Ecological information**

## 12.1 Toxicity

#### Aquatic toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Water Hazard Class WGK catalog number General information

## 12.2 Persistence and degradability

2

#### Degree of elimination

The product has not been tested. Further details

Oxygen demand

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### 12.3 Bioaccumulative potential

## **Bioconcentration factor (BCF)**

## Partition coefficient: n-octanol/water

The product has not been tested.

#### 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Other adverse effects

General information

No information available.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

## Product

#### Waste key number

120107 ---

#### Recommendation

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Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### Contaminated packaging

- Waste key number
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## Recommendation

Do not dispose of with household waste. Handle contaminated packages in the same way as the substance itself.

## Additional information

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**SECTION 14: Transport information** 

## 14.1 UN number

1950

## 14.2 UN proper shipping name

ADR, ADN AEROSOLS IMDG, IATA Aerosols

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14.3 Transpor	<u>t hazard class(es)</u>			
ADR, ADN	2,5 F			
IMDG	2			
IATA	2			
14.4 Packing	group			
14.5 Environn	nental hazards			
Marine Pollu	utant - IMDG	no		
Marine Pollu	utant - ADN	no		
14.6 Special p	precautions for user			
Land transpo	ort (ADR/RID)			
Code: ADR/		5F		
Kemmler-nu	umber	20		
Hazard labe	ADR	2.1		
Limited qua		1L		
	ed packaging: Instructions			
	ed packaging: Special provision			
	visions for packing together			
	nks: Instructions			
Tank coding	nks: Special provisions			
Tunnel restr	-	(D)		
Remarks		(D) 		
EQ				
Special prov	visions			
	asing substance	BUTANE PROPANE		
Inland wate	rway craft (ADN)			
Hazard labe				
Limited qua	ntities			
Transport p	ermitted			
Equipment (	necessary			
Ventilation				
Remarks				
EQ				
Special prov	visions			
Sea transpor	t (IMDG)			
EmS				
Special prov	visions			
Limited qua				
Contaminat	ed packaging: Instructions			

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Packing Group II requirements.

Outer packagings (boxes or cartons) must at least conform to the

Contaminated packaging: Instructions Contaminated packaging: Special provisions IBC: Instructions IBC: Provisions Tank instructions IMO Tank instructions UN Tank instructions Special provisions Stowage and segregation Properties and observations Remarks

## EQ

## Air transport (IATA-DGR)

Hazard	
Passenger	
Passenger LQ	
Cargo	
ERG	

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Remarks				
EQ				
Special Provisioni	ing			

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## **SECTION 15: Regulatory information**

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

#### National regulations

## Europe

Contents of VOC [%]	38,63 %
Contents of VOC	

[g/L]

Further regulations, limitations and legal requirements

The product is classified and labelled according to EC directives or corresponding national laws.

## **Germany**

Storage class		
Water Hazard Class	2	
WGK catalog number		
Incident regulation		
Information on working limitations		

Further regulations, limitations and legal requirements observe TRG 300!

## <u>Denmark</u>

Further regulations, limitations and legal requirements

## **Hungary**

Further regulations, limitations and legal requirements

## **Great Britain**

Further regulations, limitations and legal requirements

## **Switzerland**

Contents of VOC [%] 38,63 % Further regulations, limitations and legal requirements

## <u>USA</u>

Further regulations, limitations and legal requirements

Federal Regulations

State Regulations

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#### <u>Japan</u>

Further regulations, limitations and legal requirements

## <u>Canada</u>

Further regulations, limitations and legal requirements

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## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## **Further information**

Hazard statements (CLP)	<ul> <li>H220 Extremely flammable gas.</li> <li>H222 Extremely flammable aerosol.</li> <li>H229 Pressurised container: May burst if heated.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H372 Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).</li> <li>H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).</li> <li>H370 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>
	H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.

#### **Further information**

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## Literature

The information is based on the current status of our knowledge and experience. The safety data sheet describes products with regard to their safety requirements. These descriptions do not constitute warranted characteristics.

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

## **Reason of change**

New address and contact details

Additional information

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