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## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

## **1.1 Product identifier**

# Unterbodenschutz schwarz Underseal, black

**1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:** Corrosion protection

# Uses advised against:

No information available at present.

## 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

## **SECTION 2: Hazards identification**

	of the substance or mix ording to Regulation (E	
Hazard class	Hazard category	Hazard statement
Eye Irrit.	2	H319-Causes serious eye irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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Danger

H319-Causes serious eye irritation. H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing spray. P271-Use only outdoors or in a well-ventilated area. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible. Butanone Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %). Dangerous vapours heavier than air.

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

Aero	ISOI
3.1	Substances

n.a. 3.2 Mixtures

Dimethyl ether	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	603-019-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	204-065-8
CAS	115-10-6
content %	25-<50
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Registration number (REACH)	01-2119475514-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	921-024-6
CAS	
content %	10-<25



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Unterbodenschutz schwarz	
Underseal, black	
Classification according to Regulation (EC) 1272/20	08 (CLP), M-factors Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	01-2119475515-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	927-510-4
CAS	
content %	5-<10
Classification according to Regulation (EC) 1272/20	
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
	Outotanas for utick on Ellowers we limit unless and iss
Ethyl acetate	Substance for which an EU exposure limit value applies. 01-2119475103-46-XXXX
Registration number (REACH)	607-022-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	205-500-4
CAS	141-78-6
content %	5-<10
Classification according to Regulation (EC) 1272/20	
	Flam. Lig. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3. H336
Butanone	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119457290-43-XXXX
Index	606-002-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	201-159-0

CAS

content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	01-2119473851-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	920-750-0
CAS	
content %	3-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 2, H225
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

78-93-3

5-<10

Cyclohexane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119463273-41-XXXX
Index	601-017-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-806-2
CAS	110-82-7
content %	2,5-<5



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Hydrocarbons, C9, aromatics	

Trydrocarbons, 05, aromatics	
Registration number (REACH)	01-2119455851-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-668-5
CAS	(64742-95-6)
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 3, H226
	STOT SE 3, H335
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Keep Data Sheet available.

#### Ingestion

Typically no exposure pathway. Call doctor immediately - have Data Sheet available. Do not induce vomiting. Danger of aspiration.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Irritation of the respiratory tract Coughing Headaches Dizziness Effect on the central nervous system Unconsciousness Other dangerous properties cannot be ruled out. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.



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

Symptomatic treatment.

#### **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder Water jet spray Large fire: Water jet spray Alcohol resistant foam

#### Unsuitable extinguishing media High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Fume Metal oxides Silicon dioxide Toxic gases Possible build up of explosive/highly flammable vapour/air mixture. Danger of bursting (explosion) when heated **5.3 Advice for firefighters** 

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

## 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

#### Avoid contact with eyes or skin.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

#### Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13. Do not wash away with water or watery cleaning agents.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

**SECTION 7: Handling and storage** 



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In addition to information given in this section, relevant information can also be found in section 8 and 6.1. **7.1 Precautions for safe handling** 

# 7.1.1 General recommendations

Ensure good ventilation.

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Keep away from sources of ignition - Do not smoke. Take precautions against electrostatic charges. Do not use on hot surfaces. Avoid long lasting or intensive contact with skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Do not store with oxidizing agents. Observe special regulations for aerosols! Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. Store cool. Observe special storage conditions. **7.3 Specific end use(s)** 

#### **7.3 Specific end use(s)** No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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

## 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 600 mg/m3

Chemical Name	Dimethyl ether	
WEL-TWA: 400 ppm (766 mg/m3)	(WEL-TWA), 1000 WEL-STEL: 500 ppm (958 mg	g/m3) (WEL-STEL)
ppm (1920 mg/m3) (EU)		
Monitoring procedures:	- Compur - KITA-123 S (549 129)	I
BMGV:		Other information:
Chemical Name	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics	s, <5% n-hexane
WEL-TWA: 600 mg/m3	WEL-STEL:	
Monitoring procedures:	- Compur - KITA-187 S (551 174)	
BMGV:		Other information: (OEL acc. to RCP-method,
		paragraphs 84-87, EH40)
Chemical Name	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
Chemical Name     WEL-TWA: 800 mg/m3	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics WEL-STEL:	
WEL-TWA: 800 mg/m3	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8	1 03 571)
WEL-TWA: 800 mg/m3	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8	1 03 571)
WEL-TWA: 800 mg/m3	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8 - Draeger - Hydrocarbons 2/a (81 03	1 03 571)
WEL-TWA: 800 mg/m3 Monitoring procedures:	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8 - Draeger - Hydrocarbons 2/a (81 03	1 03 571) 3 581)
WEL-TWA: 800 mg/m3 Monitoring procedures: BMGV:	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8 - Draeger - Hydrocarbons 2/a (81 03 - Compur - KITA-187 S (551 174)	1 03 571) 3 581) Other information: (OEL acc. to RCP-method,
WEL-TWA: 800 mg/m3 Monitoring procedures: BMGV:	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8 - Draeger - Hydrocarbons 2/a (81 03 - Compur - KITA-187 S (551 174) Ethyl acetate	1 03 571) 3 581) Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)
WEL-TWA: 800 mg/m3 Monitoring procedures: BMGV:	WEL-STEL: - Draeger - Hydrocarbons 0,1%/c (8 - Draeger - Hydrocarbons 2/a (81 03 - Compur - KITA-187 S (551 174) Ethyl acetate	1 03 571) 3 581) Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)



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	- Compur -	KITA-111 SA (549 160)		
		KITA-111 U(C) (549 17		
	DFG Meth	. Nr. 1 (D) (Loesungsm	ittelgemische 2), DFG (E)	(Solvent mixtures 2) - 1993,
	- 2002			
		. Nr. 2 (D) (Loesungsm	ittelgemische 3), DFG (E)	(Solvent mixtures 3) - 2014,
	- 2002 DEC Moth	Nr. 6 (D) (Loosungem	ittolaomischo () DEC (E)	(Solvent mixtures 4) - 2014,
	- 2002		intelgennische 4), DI G (L)	(30) went mixtures 4) - 2014,
		57 (ETHYL ACETATE)	- 1994	
	- NIOSH 25	<u>49 (VOLATILE ORGAN</u>	NIC COMPOUNDS (SCRE	
BMGV:			Other information:	
	Itanone			
WEL-TWA: 200 ppm (600 mg/m3) (WE	, ppm (90	00 mg/m3) (EU)	ng/m3) (WEL-STEL), 300	
Monitoring procedures:		KITA-122 SA(C) (549 2		
		KITA-139 SB (549 731) KITA-139 U (549 749)	)	
			nittelaemische 4). DFG (E)	(Solvent mixtures 4) - 2015,
	- 2002			(,
			nination of ketones (acetor	
			arcoal tube method / Gas 002-16 card 105-1 (2004)	chromatography) - 1996 -
				nethod using pumped solid
			and gas chromatography)	
	<ul> <li>NIOSH 25</li> </ul>	00 (METHYL ETHYL K	ETONE) - 1996	
				ENING)) - 1996
		55 (KETONES I) - 2003	3 ORGANIC GASES BY EX <sup>-</sup>	
		METRY) - 2016		
			Hexone (MIBK)) - 2000	
BMGV: 70 µmol butan-2-one/l in urine	post shift (BMGV)		Other information: Sk	ζ
Chemical Name     Hy	drocarbons, C7-C9, n-alka	anes, isoalkanes, cyclic	S	
WEL-TWA: 1200 mg/m3	_	TEL:		
Monitoring procedures:		Hydrocarbons 0,1%/c (8		
		Hydrocarbons 2/a (81 0 KITA-187 S (551 174)	J3 581)	
BMGV:			Other information: (O	EL acc. to RCP-method,
_			paragraphs 84-87, EH4	
Chemical Name     Cy	rclohexane			
WEL-TWA: 350 mg/m3 (100 ppm) (WE		TEL: 1050 mg/m3 (30	00 ppm)	
mg/m3 (200 ppm) (EU)			00.074	
Monitoring procedures:		Cyclohexane 40/a (81 ( KITA-115 S (551 133)	03 6/1)	
			5, BP 36°-216 °C) - 2003	
		22 (Cyclohexane) - 2018		
BMGV:			Other information:	
Chemical Name     Hy	drocarbons, C9, aromatic	S		
WEL-TWA: 500 mg/m3 (Aromatics)	WEL-S	TEL:		
Monitoring procedures:		Hydrocarbons 0,1%/c (		
		Hydrocarbons 2/a (81 0 KITA-187 S (551 174)	J3 581)	
BMGV:	- Comput - I	<u>xirA-107 3 (001 174)</u>	Other information:	
Chemical Name Ta				
		TEL:		
		· ·		
WEL-TWA: 1 mg/m3 (res. dust)				
			Other information:	
WEL-TWA: 1 mg/m3 (res. dust) Monitoring procedures:			Other information:	
WEL-TWA: 1 mg/m3 (res. dust) Monitoring procedures: BMGV:			Other information:	
WEL-TWA: 1 mg/m3 (res. dust) Monitoring procedures:			Other information:	
WEL-TWA: 1 mg/m3 (res. dust) Monitoring procedures: BMGV:			Other information:	



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,155	mg/l	
	Environment - sediment, freshwater		PNEC	0,681	mg/kg	
	Environment - soil		PNEC	0,045	mg/kg	
	Environment - sewage treatment plant		PNEC	160	mg/l	
	Environment - marine		PNEC	0,016	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,549	mg/l	
	Environment - sediment, marine		PNEC	0,069	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	471	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1894	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	

Hydrocarbons, C7, n-alka	anes, isoalkanes, cyclics						
Area of application	Exposure route / Environmental compartment	Environmental		Value	Unit	Note	
Consumer	Human - dermal	Long term, systemic effects	DNEL	149	mg/kg bw/d		
Consumer	Human - inhalation	Long term, systemic effects	DNEL	447	mg/m3		
Consumer	Human - oral	Long term, systemic effects	DNEL	149	mg/kg bw/d		
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/d		
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2085	mg/m3		

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,24	mg/l	
	Environment - marine		PNEC	0,024	mg/l	



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	Environment - water, sporadic (intermittent) release		PNEC	1,65	mg/l	
	Environment - sediment, freshwater		PNEC	1,15	mg/kg	
	Environment - sediment, marine		PNEC	0,115	mg/kg	
	Environment - soil		PNEC	0,148	mg/kg	
	Environment - sewage treatment plant		PNEC	650	mg/l	
	Environment - oral (animal feed)		PNEC	200	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	37	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	734	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	63	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1468	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1468	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	55,8	mg/l	
	Environment - marine		PNEC	55,8	mg/l	
	Environment - sediment, freshwater		PNEC	284,74	mg/kg dw	
	Environment - sediment, marine		PNEC	284,7	mg/kg dw	
	Environment - soil		PNEC	22,5	mg/kg dw	
	Environment - sewage treatment plant		PNEC	709	mg/l	
	Environment - sporadic (intermittent) release		PNEC	55,8	mg/l	
	Environment - oral (animal feed)		PNEC	1000	mg/kg	
Consumer	Human - dermal	Long term	DNEL	412	mg/kg bw/day	Overall assesment factor 2
Consumer	Human - inhalation	Long term	DNEL	106	mg/m3	Overall assesmen factor 2
Consumer	Human - oral	Long term	DNEL	31	mg/kg bw/day	Overall assesmen factor 2
Workers / employees	Human - dermal	Long term	DNEL	1161	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term	DNEL	600	mg/m3	



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Hydrocarbons, C7-C9, n-a	alkanes, isoalkanes, cyclics					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	44,7	µg/l	
	Environment - marine		PNEC	4,47	µg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,9	µg/l	
	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight	
	Environment - soil		PNEC	0,694	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	3,24	mg/l	
	Environment - sediment, marine		PNEC	0,36	mg/kg	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	412	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	412	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1186	mg/kg body weight/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	206	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	59,4	mg/kg body weight/day	
Consumer	Human - inhalation	Long term, local effects	DNEL	206	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	700	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	700	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	700	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2016	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	700	mg/m3	

Hydrocarbons, C9, aromatics



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	32	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	11	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	11	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	25	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	150	mg/m3	

Inited Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this

Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

|BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

# 8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Solvent resistant protective gloves (EN ISO 374). Recommended Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,3 Permeation time (penetration time) in minutes: > 480



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Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown At high concentrations: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Thermal hazards: Not applicable

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Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

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

## 9.1 Information on basic physical and chemical properties

Physical state:	Aerosol. Active substance: liquid.
Colour:	Black
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	-25 °C
Flammability:	Does not apply to aerosols.
Lower explosion limit:	0,6 Vol-%
Upper explosion limit:	18 Vol-%
Flash point:	<-20 °C (DIN 53213 (Pensky-Martens, closed cup))
Auto-ignition temperature:	>200 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water)., Neutral
Kinematic viscosity:	<=20,5 mm2/s (40°C)
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	60 hPa (20°C)
Density and/or relative density:	1,065 g/ml (Active substance )
Density and/or relative density:	0,839 g/cm3 (20°C, DIN 51757)
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
9.2 Other information	

Solvents content:

74,9 %

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

#### 10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling.



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#### **10.3 Possibility of hazardous reactions**

## No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

#### **10.5 Incompatible materials**

Avoid contact with strong oxidizing agents.

## **10.6 Hazardous decomposition products**

No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Dimethyl ether						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	164	mg/l/4h	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 477 (Genetic	Negative
					Toxicology - Sex-Linked	
					Recessive Lethal Test	
					in Drosophilia	
					melanogaster)	
Carcinogenicity:	NOAEC	47000	mg/m3	Rat	OECD 453 (Combined	Negative
					Chronic	
					Toxicity/Carcinogenicity	
					Studies)	
Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414 (Prenatal	
					Developmental Toxicity	
					Study)	



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Specific target organ toxicity -	NOAEC	47106	mg/kg	Rat	OECD 452 (Chronic	Negative(2 a)
repeated exposure (STOT-RE):					Toxicity Studies)	
Aspiration hazard:				+		No
Hydrocarbons, C6-C7, n-alkanes	s. isoalkanes	. cyclics, <5% n-	hexane			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral	
toute toxicity, by oral route.	LDOU	20070	ing/ing	T COL	Toxicity)	
Acute toxicity, by dermal route:	LD50	>2800-3100	ma/ka	Rat	OECD 402 (Acute	-
ACUTE TOXICITY, by definal route.	LDOU	>2800-3100	mg/kg	Rat		
A to tout the built boot	1.050				Dermal Toxicity)	1/
Acute toxicity, by inhalation:	LC50	>20	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Mild irritant
, ,					Irritation/Corrosion)	(Analogous
						conclusion)
Respiratory or skin		-		Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:				Ounieu pig	Sensitisation)	
Germ cell mutagenicity:		-			OECD 471 (Bacterial	Analogous
serm cen mutagemony.					Reverse Mutation Test)	conclusion,
					Reverse mutation resu	
				_	_	Negative
Carcinogenicity:						Negative
Reproductive toxicity:					OECD 414 (Prenatal	Analogous
-,					Developmental Toxicity	conclusion,
					Study)	Negative
Specific target organ toxicity -			+	+		May cause
single exposure (STOT-SE):						drowsiness or
						dizziness.,
						STOT SE 3,
• • • • • • • • • • • • • • •						H336
Aspiration hazard:					_	Yes
Symptoms:		Ţ				drowsiness,
						unconsciousnes
						,
						heart/circulatory
						disorders,
						headaches,
						cramps,
						1 1 1
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.
Hydrocarbons, C7, n-alkanes, is	soalkanes, cv	clics				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
ACULE LOXICITY, by Oral Toule.	LDSU	>0040	IIIg/kg	Γαι		
A to to the burdermol router		0000		- D-4	Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rat	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	Analogous
			-		Inhalation Toxicity)	conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
						1
Serious eve damage/irritation:				Rabbit	· · · · · · · · · · · · · · · · · · ·	Not irritant
Serious eye damage/irritation: Respiratory or skin				Rabbit Guinea pig	OECD 406 (Skin	Not irritant No (skin contac



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Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:					,	Negative
Reproductive toxicity:	NOAEL	9000	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Negative
Aspiration hazard:						Yes
Symptoms:						diarrhoea, headaches, dizziness, nausea and vomiting.
Symptoms:						drowsiness, unconsciousness , heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., diarrhoea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4934	mg/kg	Rabbit	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>20000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LCO	29,3	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:		- / -		Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Repeated
					Irritation/Corrosion)	exposure may
					,	cause skin
						dryness or
						cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Irrit. 2
, ,					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H336, May
						cause
						drowsiness or
						dizziness.
Aspiration hazard:						No



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Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,002	mg/kg	Rat	Regulation (EC) 440/2008 B.29 (SUB- CHRONIC INHALATION TOXICITY STUDY 90- DAY REPEATED (RODENTS))	
Symptoms:						lack of appetite, breathing difficulties, drowsiness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting., fatigue
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	Regulation (EC) 440/2008 B.26 (SUB- CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	34-34,5	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative



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Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Reproductive toxicity (Developmental toxicity):	NOAEC	1002	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						respiratory distress, drowsiness, unconsciousness, , drop in blood pressure, coughing, headaches, cramps, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., menta confusion, fatigu
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	5041	ppm/6h/d	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Vapours, Negative
Lludroserberg CZ CO n elkene			·	•	· · ·	•
Hydrocarbons, C7-C9, n-alkane Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Notes
Acute toxicity, by dermal route:	LD50	>2800	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Human being	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:	NOAEL	9000	ppm		OECD 416 (Two- generation Reproduction Toxicity Study)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	5,8	mg/l		OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	
		-				Yes



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Symptoms:		drowsiness, unconsciousness
		, heart/circulatory
		disorders,
		headaches,
		cramps,
		drowsiness,
		mucous
		membrane
		irritation,
		dizziness,
		nausea and
		vomiting.

Cyclohexane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	14	mg/l/4h	Rat		Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Germ cell mutagenicity:						Negative
Specific target organ toxicity -	LOAEL	0,09	mg/l			May cause
single exposure (STOT-SE):						drowsiness or
						dizziness.
Aspiration hazard:						Yes
Symptoms:						lack of appetite,
						abdominal pain,
						drowsiness,
						unconsciousness
						, coughing,
						collapse,
						headaches,
						cramps,
						gastrointestinal
						disturbances,
						drowsiness,
						mucous membrane
						irritation, dizziness,
						· · ·
						nausea and
						vomiting.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3492	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,693	mg/l/4h	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>6,193	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	



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Skin corrosion/irritation:			Repeated
			exposure may
			cause skin
			dryness or
			cracking.
Skin corrosion/irritation:	Rabbit	OECD 404 (Acute	Not irritant
		Dermal	
		Irritation/Corrosion)	
Serious eye damage/irritation:	Rabbit	OECD 405 (Acute Eye	Not irritant
		Irritation/Corrosion)	
Respiratory or skin	Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:		Sensitisation)	•
Germ cell mutagenicity:		OECD 475 (Mammalian	Negative
		Bone Marrow	0
		Chromosome	
		Aberration Test)	
Germ cell mutagenicity:		OECD 476 (In Vitro	Negative
		Mammalian Cell Gene	- 0
		Mutation Test)	
Germ cell mutagenicity:		OECD 479 (Genetic	Negative
		Toxicology - In Vitro	lioguaro
		Sister Chromatid	
		Exchange assay in	
		Mammalian Cells)	
Germ cell mutagenicity:	Salmonella	OECD 471 (Bacterial	Negative,
Certifice in mutagementy.	typhimurium	Reverse Mutation Test)	Analogous
	typiintanam	Reverse mutation rest)	conclusion
Carcinogenicity:			Negative
Reproductive toxicity:	Rat	OECD 421	Negative,
	T Cat	(Reproduction/Developm	Analogous
		ental Toxicity Screening	conclusion
		Test)	COnclusion
Reproductive toxicity:		OECD 414 (Prenatal	Negative
Reproductive toxicity.		Developmental Toxicity	Negative
		Study)	
Reproductive toxicity:		OECD 416 (Two-	Negative
Reproductive toxicity.		generation	Negative
		Reproduction Toxicity	
		Study)	
Specific target organ toxicity -		Siudy)	STOT SE 3,
single exposure (STOT-SE):			H335, STOT SE
single exposule (SIOI-SE):			
Procific target argen tovicity		OECD 408 (Repeated	3, H336
Specific target organ toxicity -			Negative
repeated exposure (STOT-RE):		Dose 90-Day Oral	
		Toxicity Study in	
		Rodents)	
Specific target organ toxicity -		OECD 452 (Chronic	Negative
repeated exposure (STOT-RE):		Toxicity Studies)	
Aspiration hazard:			Yes



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			· · · · · · · · · · · · · · · · · · ·
Symptoms:			respiratory
			distress,
			coughing,
			burning of the
			membranes of
			the nose and
			throat,
			drowsiness,
			dizziness,
			headaches,
			nausea,
			unconsciousness
			, fever, ear
			noises, drying of
			the skin.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Skin corrosion/irritation:					Initation/Corrosion)	Not irritant
Respiratory or skin sensitisation:						Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:				Rabbit	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Carcinogenicity:						Negative
Symptoms:						mucous membrane irritation

#### 11.2. Information on other hazards

Unterbodenschutz schwarz Underseal, black						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

## **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

arz								
Underseal, black								
Endpoint	Time	Value	Unit	Organism	Test method	Notes		
						n.d.a.		
						n.d.a.		
						n.d.a.		
						n.d.a.		
-								



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Unterbodenschutz schwar	Z						
Underseal, black							
12.3. Bioaccumulative							n.d.a.
potential:							n.u.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse effects:							No information
enecis.							available on other adverse
							effects on the
							environment.
Other information:							DOC-elimination
							degree(complexi
							ng organic
							substance)>=
Other information:	ΑΟΧ		0	%			80%/28d: n.a. According to the
			0	70			recipe, contains
							no AOX.
		1	1		1		
Dimethyl ether		1		1			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC0	96h	2695	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	96h	3082	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	>4,1	mg/l	Poecilia reticulata		
12.1. Toxicity to daphnia: 12.1. Toxicity to algae:	EC50 EC50	48h 96h	>4,4	mg/l mg/l	Daphnia magna Chlorella vulgaris		
12.2. Persistence and	2030	28d	5	%		OECD 301 D	Not readily
degradability:		200		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(Ready Biodegradability - Closed Bottle Test)	biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,07				Bioaccumulation is unlikely
							(LogPow < 1). 25°C (pH 7)
12.4. Mobility in soil:	H (Henry)		518,6	Pa*m3/m ol			No adsorption in soil.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No vPvB substance
Toxicity to bacteria:	EC10		>1600	mg/l	Pseudomonas putida		
Water solubility:			45,60	mg/l			25°C
			F0/ ·				
Lively a series of 00.07		ines, cycli	;s, <o% n-h<="" th=""><th></th><th>Organism</th><th>Test method</th><th>Notes</th></o%>		Organism	Test method	Notes
		Time	Value	110.4			A REPORT OF A R
Hydrocarbons, C6-C7, n Toxicity / effect 12.1. Toxicity to fish:	-aikanes, isoaika Endpoint NOEC/NOEL	Time 28d	Value 2,045	Unit mg/l	Oncorhynchus	Test method	Notes
Toxicity / effect 12.1. Toxicity to fish:	Endpoint NOEC/NOEL	28d	2,045	mg/l	Oncorhynchus mykiss		Notes
Toxicity / effect12.1. Toxicity to fish:12.1. Toxicity to fish:	Endpoint NOEC/NOEL NOELR	28d 28d	2,045 2,04	mg/l mg/l	Oncorhynchus mykiss Salmo gairdneri		
Toxicity / effect12.1. Toxicity to fish:12.1. Toxicity to fish:12.1. Toxicity to fish:12.1. Toxicity to fish:	Endpoint NOEC/NOEL NOELR LC50	28d 28d 96h	2,045 2,04 11,4	mg/l mg/l mg/l	Oncorhynchus mykiss Salmo gairdneri Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity / effect12.1. Toxicity to fish:12.1. Toxicity to fish:12.1. Toxicity to fish:12.1. Toxicity to fish:	Endpoint NOEC/NOEL NOELR	28d 28d	2,045 2,04	mg/l mg/l	Oncorhynchus mykiss Salmo gairdneri Oncorhynchus	OECD 203 (Fish, Acute Toxicity Test) OECD 203 (Fish, Acute Toxicity	
Toxicity / effect12.1. Toxicity to fish:12.1. Toxicity to fish:	Endpoint NOEC/NOEL NOELR LC50	28d 28d 96h	2,045 2,04 11,4	mg/l mg/l mg/l	Oncorhynchus mykiss Salmo gairdneri Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test) OECD 203 (Fish,	



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10.1 T : 1		04.1	0.47	4	<b>B</b> 1 3	0500 014	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	30-100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
, ,				Ū	a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	81	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
,						Biodegradability -	· · · · · · · · · · · · · · · · · · ·
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative							Concentration in
potential:							organisms
potoritidi.							possible.
12.3. Bioaccumulative	BCF		242-253				p0331b10.
potential:	BOI		242-200				
12.4. Mobility in soil:							Adsorption in
,							ground., Product
							is slightly volatile.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Other information:	AOX		0	%			VEVD SUDSLANCE
				/0			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13,4	mg/l	Oncorhynchus		
					mykiss		
12.1. Toxicity to fish:	LL50	96h	>13,4	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOELR	28d	1,53	mg/l	Oncorhynchus	QSAR	
-				_	mykiss		
12.1. Toxicity to daphnia:	NOELR	21d	1	mg/l	Daphnia magna	OECD 211	
				_		(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	3	mg/l	Daphnia magna	OECD 202	Analogous
					, ŭ	(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	10 - 30	mg/l	Pseudokirchneriell	,	
, ,				Ū	a subcapitata		
12.1. Toxicity to algae:	NOELR	72h	10	mg/l	Pseudokirchneriell		
					a subcapitata		
12.1. Toxicity to algae:	ErL50	72h	10-30	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOELR	72h	6,3	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	98	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	-
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative							Possible
potential:							
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Water solubility:			2.6	mg/l			25°C



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Ethyl acetate Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	32d	<9,65	mg/l	Pimephales	Test method	NOLES
	NOEC/NOEL	320	<9,05	iiig/i	promelas		
12.1. Toxicity to fish:	LC50	96h	230	mg/l	Pimephales		
	2030	3011	230	iiig/i	promelas		
12.1. Toxicity to fish:	LC50	48h	333	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	610	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	2,4	mg/l	Daphnia magna	OECD 211	
		210	, .	iiig/i	Daprina magna	(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	165	mg/l			Daphnia
		_		5			cucullata
12.1. Toxicity to algae:	EC50	48h	5600	mg/l	Desmodesmus	DIN 38412 T.9	
, .				Ū	subspicatus		
12.1. Toxicity to algae:	NOEC/NOEL	96h	2000	mg/l	Scenedesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EC50	48h	3300	mg/l	Scenedesmus		
					subspicatus		
12.2. Persistence and		20d	79	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability - Closed Bottle Test)	
12.3. Bioaccumulative	BCF	72h	30			Closed Bottle Test)	(Fish)
potential:	DUF	720	30				(FISH)
12.3. Bioaccumulative	Log Kow		0,68			OECD 107	Bioaccumulation
potential:	LUGINUW		0,00			(Partition	is unlikely
potential.						Coefficient (n-	(LogPow < 1).2
						octanol/water) -	°C
						Shake Flask	Ũ
						Method)	
12.4. Mobility in soil:	H (Henry)		0.00012	atm*m3/m			
				ol			
12.4. Mobility in soil:	Koc		3				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	2900	mg/l	Escherichia coli		
Toxicity to bacteria:	EC50	15min	5870	mg/l	Photobacterium		
				Ŭ	phosphoreum		
Toxicity to bacteria:	EC10	18h	2900	mg/l	Pseudomonas	DIN 38412 T.8	
					putida		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1690	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	2993	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	308	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	



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12.1. Toxicity to algae:	EC50	72h	1972	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	2029	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	98	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,29-0,3			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Bioaccumulation is unlikely (LogPow < 1).
12.4. Mobility in soil:	H (Henry)		0,00002 44			,	25°C
12.4. Mobility in soil:	Log Koc		3,8				
12.5. Results of PBT and vPvB assessment							No vPvB substance, No PBT substance
Toxicity to bacteria:	EC0	16h	1150	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	DOC		>70	%			
Other information:	BOD/COD		>50	%			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	3-10	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EL50	48h	4,6-10	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	LC50	72h	10	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	98	%		OECD 301 F	Analogous
degradability:						(Ready	conclusion
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	Log Pow		4-5,7				A notable
ootential:							biological
							accumulation
							potential has to
							be expected
							(LogPow > 3).
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated value

Cyclohexane									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:	LC50	96h	4,53	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)			



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12.1. Toxicity to daphnia:	EC50	48h	0,9	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	LC50	72h	9,317	mg/l	Chlorella vulgaris		
12.2. Persistence and degradability:		28d	77	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
12.2. Persistence and degradability:	DOC	28d	9	%			Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		3,44				A notable biological accumulation potential has to be expected (LogPow > 3).
Toxicity to bacteria:	EC50	5min	200	mg/l	Photobacterium phosphoreum		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	9,2	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	3,2	mg/l	Daphnia magna	OECD 202	
				_		(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	ErL50	72h	2,9	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
, ,				_	a subcapitata	Growth Inhibition	
					-	Test)	
12.2. Persistence and		28d	54-56	%		OECD 301 B	
degradability:						(Ready	
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.2. Persistence and		28d	78	%	activated sludge	OEĆD 301 E	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	78	%		OECD 301 F	
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	Log Pow		3,7 - 4,5				
potential:							
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
Toxicity to bacteria:	EC50	10min	>99	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	



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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	100	g/l	Brachydanio rerio		
12.2. Persistence and							Not relevant for
degradability:							inorganic
							substances.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Water solubility:			<0,1	%			

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

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The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances 08 01 11 waste paint and varnish containing organic solvents or other hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

#### For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging

## **SECTION 14:** Transport information

#### **General statements** renewert by read/by reil (ADD/DID)

Transport by road/by rail (ADR/RID)		
14.1. UN number or ID number:	1950	•
14.2. UN proper shipping name:		
UN 1950 AEROSOLS		
14.3. Transport hazard class(es):	2.1	JY.
14.4. Packing group:	-	< <u>*</u> _>
14.5. Environmental hazards:	environmentally hazardous	$\sim$
Tunnel restriction code:	D	
Classification code:	5F	
LQ:	1 L	
Transport category:	2	
Transport by sea (IMDG-code)		
14.1. UN number or ID number:	1950	•
14.2. UN proper shipping name:		
UN 1950 AEROSOLS (HYDROCARBONS, C6-C7)		· · · ·
14.3. Transport hazard class(es):	2.1	AV
14.4. Packing group:	-	
14.5. Environmental hazards:	environmentally hazardous	$\sim$
Marine Pollutant:	Yes	
EmS:	F-D, S-U	
Transport by air (IATA)		
14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:	1000	
UN 1950 Aerosols, flammable		
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14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account. Danger code and packing code on request.

Comply with special provisions.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Cyclohexane

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
E2		200	500
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

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Revised sections:

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.

2.1

environmentally hazardous

75,85 %



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Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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.

H220 Extremely flammable gas.

EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. — Eye irritation Skin Irrit. — Skin irritation Asp. Tox. — Aspiration hazard STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Gas — Flammable gases - Flammable gas Flam. Liq. — Flammable liquid Aquatic Acute — Hazardous to the aquatic environment - acute STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) **Bioconcentration factor** BCF BSEF The International Bromine Council



ആ Page 29 of 30 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.03.2024 / 0037 Replacing version dated / version: 12.11.2023 / 0036 Valid from: 04.03.2024 PDF print date: 08.03.2024 Unterbodenschutz schwarz Underseal, black CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN European Norms EPA United States Environmental Protection Agency (United States of America)  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera FU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number aen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships mg/kg body weight mg/kg bw mg/kg bw/d, mg/kg bw/day mg/kg body weight/day mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)



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REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

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TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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