

Dichlofenthion Formulation

Commission Regulation (EU) 2020/878

Version	Revision Date:	SDS Number:	Date of last issue: 17.06.2024
6.0	28.09.2024	1560315-00019	Date of first issue: 14.04.2017

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

1.1	Product identifier Trade name	:	Dichlofenthion Formulation
1.2	Relevant identified uses of th	ie s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 Acute toxicity, Category 4 Skin corrosion, Sub-category 1B Serious eye damage, Category 1 Skin sensitisation, Category 1 Germ cell mutagenicity, Category 2 Carcinogenicity, Category 1A Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 1 Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1 H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
H350: May cause cancer if swallowed.
H361d: Suspected of damaging the unborn child.
H370: Causes damage to organs.
H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure. H304: May be fatal if swallowed and enters airways.



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gory 2	term (chronic) aquatic		rd, Cat-	H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting offects.
2.2 Label				
Laha			10 1070/000	
	lling (REGULATION (I rd pictograms			
Signa	l word	:	Danger	
Hazaı	rd statements	:	H302 Harr H304 May H314 Cau H317 May H335 May H341 Sus H350 May H361d Sus H370 Cau H373 May repeated ex Rest	imable liquid and vapour. Inful if swallowed. be fatal if swallowed and enters airways. ses severe skin burns and eye damage. cause an allergic skin reaction. cause respiratory irritation. bected of causing genetic defects. cause cancer if swallowed. bected of damaging the unborn child. ses damage to organs. cause damage to organs through prolonged or bosure. toxic to aquatic life with long lasting effects.
	emental Hazard ments	:	EUH071	Corrosive to the respiratory tract.
Preca	utionary statements	:	Prevention:	
			P273 Avoi	in special instructions before use. d release to the environment. r protective gloves/ protective clothing/ eye prote otection.
			Response:	
			with water for sent and eas POISON CE P308 + P31 CENTER/ do	 + P338 + P310 IF IN EYES: Rinse cautiously r several minutes. Remove contact lenses, if presy to do. Continue rinsing. Immediately call a NTER/ doctor. IF exposed or concerned: Call a POISON potor. ect spillage.
Tar, v Rosin Tar, c	oal	ch m	ust be listed	on the label:
	penzene ofenthion (ISO)			



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Sodium hydroxide Phenol

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

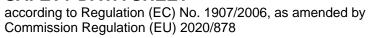
Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Tar, wood	91722-33-7 294-436-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 10 - < 20
Rosin	8050-09-7 232-475-7 650-015-00-7	Skin Sens. 1; H317	>= 10 - < 20
Tar, coal	8007-45-2 232-361-7 648-081-00-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1A; H350 STOT SE 1; H370 (Nervous system) STOT SE 3; H335 STOT RE 2; H373 (Respiratory Tract) Aquatic Chronic 2; H411 Acute toxicity esti-	>= 10 - < 20



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			mate Acute oral toxicity:	
Ethylk	benzene	100-41-4 202-849-4 601-023-00-4	1.700 mg/kg Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 2,5 - < 10
			Acute toxicity esti- mate Acute inhalation toxicity (vapour): 17,8 mg/l	
Xylen	ie	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H315 STOT SE 3; H335 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity estimate	>= 2,5 - < 10
			Acute inhalation toxicity (vapour): 11 mg/l Acute dermal toxici- ty: 1.100 mg/kg	
Dichlo	ofenthion (ISO)	97-17-6 202-564-5 015-068-00-7	Acute Tox. 3; H301Acute Tox. 4; H332Acute Tox. 3; H311Repr. 2; H361dSTOT RE 1; H372(Nervous system)Aquatic Acute 1;H400Aquatic Chronic 1;H410M-Factor (Acuteaquatic toxicity):100M-Factor (Chronic	>= 3 - < 10





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Ш			aquatic toxicity): 100	
Sodiu	m hydroxide	1310-73-2 215-185-5 011-002-00	Met. Corr. 1; H290 Skin Corr. 1A;	>= 2 - < 3
Phen	ol	108-95-2 203-632-7 604-001-00	-2 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341 STOT RE 2; H373 (Central nervous system, Kidney, Liver, Skin) Aquatic Chronic 2; H411 EUH071 specific concentra- tion limit Skin Corr. 1B; H314 >= 3 % Skin Irrit. 2; H315 1 - < 3 % Eye Irrit. 2; H319 1 - < 3 % EUH071 >= 3 %	>= 1 - < 2,5



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m-Cre	esol	108-39-4 203-577-9 604-004-00	Acute toxicity esti- mate Acute oral toxicity: 140 - 290 mg/kg Acute inhalation toxicity (dust/mist): > 0,9 mg/l Acute dermal toxici- ty: 300 mg/kg Acute Tox. 3; H301 Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 EUH071 Acute toxicity esti- mate Acute oral toxicity: 121 mg/kg Acute dermal toxici- ty: 301 mg/kg	2,5
p-Cre	sol	106-44-5 203-398-6 604-004-00	Acute Tox. 3; H301 >= 1 - < 2 Acute Tox. 3; H311	2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).



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If inhaled		lf no If bro	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.				
In cas	se of skin contact	for a and Get Was	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In case of eye contact		for a If ea	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.				
lf swa	allowed	lf vo Call Rins	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.				
4.2 Most i	mportant symptoms	and effect	s, both acut	e and delayed			
Risks		: Harr May May Cau May Sus Sus Cau May expo Cau	nful if swallo be fatal if sw cause an al ses serious of cause respi pected of cau cause cance pected of da ses damage cause damage soure. ses severe b	wed. wallowed and enters airways. lergic skin reaction. eye damage. ratory irritation. using genetic defects. er if swallowed. maging the unborn child. to organs. age to organs through prolonged or repeated			
		Cau	ses digestive	e tract burns.			
4.3 Indica	tion of any immediate	e medical a	attention an	d special treatment needed			
Treat	ment	: Trea	at symptoma	tically and supportively.			
SECTION	I 5: Firefighting me	asures					

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

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	Unsuita media	ble extinguishing	:	High volume wate	er jet
5.2 \$	Special	hazards arising from	the	substance or mix	kture
	Specific fighting	c hazards during fire-	:	fire. Flash back possib Vapours may form	water stream as it may scatter and spread ble over considerable distance. In explosive mixtures with air. Dustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides (N	NOx)
5.3	Advice	for firefighters			
	Special for firef	protective equipment ghters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
6.2 Environmental precautions	
Environmental precautions	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and material for cor	tainment and cleaning up

Methods for cleaning up	:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain-
		For large spills, provide dyking or other appropriate contain-



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		be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	aterial from spreading. If dyked material can re recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures		Engineering measures under EXPOSURE FROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If suff ventil	icient ventilation is unavailable, use with local exhaust ation. xplosion-proof electrical, ventilating and lighting equip-
Advice on safe handling	: Do no Do no Do no Wash Hand practi sessr Non-s Keep Alrea to ast shoul tory in Keep other Take Do no Take	ot get on skin or clothing. ot breathe vapours. ot swallow. ot get in eyes. skin thoroughly after handling. le in accordance with good industrial hygiene and safety ce, based on the results of the workplace exposure as-
Hygiene measures	: If exp flushi place work Wash The e engin appro	osure to chemical is likely during typical use, provide eye ng systems and safety showers close to the working . When using do not eat, drink or smoke. Contaminated clothing should not be allowed out of the workplace. contaminated clothing before re-use. ffective operation of a facility should include review of eering controls, proper personal protective equipment, priate degowning and decontamination procedures, trial hygiene monitoring, medical surveillance and the



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		use of admin	istrative controls.
7.2 Condi	tions for safe storage	, including any inc	compatibilities
	irements for storage and containers	tightly closed accordance v	erly labelled containers. Store locked up. Keep I. Keep in a cool, well-ventilated place. Store in with the particular national regulations. Keep eat and sources of ignition.
Advic	e on common storage	Strong oxidiz Self-reactive Organic pero Flammable s Pyrophoric lid Pyrophoric so Self-heating s Substances a flammable ga Explosives Gases	substances and mixtures xides olids quids olids substances and mixtures and mixtures, which in contact with water, emit

7.3 Specific end use(s)

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis		
•		of exposure)	·			
Ethylbenzene	100-41-4	TWA	5 ppm	FOR-2011-		
			20 mg/m3	12-06-1358		
	Further inform	nation: Substances c	onsidered to be carcinogenic	, Chemicals		
	that can be at	osorbed through the	skin.			
		TWA	100 ppm	2000/39/EC		
			442 mg/m3			
	Further inform	nation: Identifies the	possibility of significant uptak	through the		
	skin, Indicativ	e		-		
		STEL	200 ppm	2000/39/EC		
			884 mg/m3			
	Further inform skin, Indicativ	Further information: Identifies the possibility of significant uptake through the				
Xylene	1330-20-7	TWA	25 ppm	FOR-2011-		
, yiono	1000 20 1		108 mg/m3	12-06-1358		
	Further information: Chemicals that can be absorbed through the skin.					
		TWA	50 ppm	2000/39/EC		
		221 mg/m3				
	Further information: Identifies the possibility of significant uptake through the					



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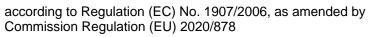
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I	l	skin, Indicati	ve				
			STEL	100 ppm 442 mg/m3	2000/39/EC		
		Further infor skin, Indicati		s the possibility of significant upta	ke through the		
	Dichlofenthion (ISO)	97-17-6	TWA	20 µg/m3 (OEB 3)	Internal		
		Further infor	Further information: Skin				
			Wipe limit	200 µg/100 cm ²	Internal		
	Sodium hydroxide	1310-73-2	Т	2 mg/m3	FOR-2011- 12-06-1358		
	Phenol	108-95-2	TWA	1 ppm 4 mg/m3	FOR-2011- 12-06-1358		
		Further information: Chemicals that can be absorbed through the skin.					
			STEL	3 ppm	FOR-2011-		
				12 mg/m3	12-06-1358		
		Further infor	Further information: Chemicals that can be absorbed through the skin.				
			TWA	2 ppm 8 mg/m3	2009/161/EU		
-	Further information: Identifies the possibility of significant uptake through skin, Indicative			ke through the			

	onin, maioau					
		STEL	4 ppm	2009/161/EU		
			16 mg/m3			
	Further inforr	mation: Identifies the	possibility of significant uptal	ke through the		
	skin, Indicativ	skin, Indicative				
m-Cresol	108-39-4	TWA	20 mg/m3	FOR-2011-		
			_	12-06-1358		
	Further inforr	Further information: Chemicals that can be absorbed through the skin.				
p-Cresol	106-44-5	TWA	20 mg/m3	FOR-2011-		
			-	12-06-1358		
	Further inforr	Further information: Chemicals that can be absorbed through the skin.				

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sodium hydroxide	Consumers	Inhalation	Long-term local ef- fects	1 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
Tar, wood	Workers	Inhalation		70,53 mg/m3
	Consumers	Inhalation		355,56 mg/m3
	Consumers	Ingestion		10 mg/kg bw/day
Phenol	Workers	Inhalation	Long-term systemic effects	8 mg/m3
	Workers	Inhalation	Acute local effects	16 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,23 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,32 mg/m3
	Consumers	Skin contact	Long-term systemic	0,4 mg/kg





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				effects	bw/day
		Consumers	Ingestion	Long-term systemic effects	0,4 mg/kg bw/day
m-Cre	esol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	343 mg/m3
		Workers	Skin contact	Long-term systemic effects	0,5 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	1,47 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	0,75 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	222 mg/m3
		Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	0,74 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	0,74 mg/kg bw/day
p-Cre	sol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	7 mg/m3
		Workers	Skin contact	Long-term systemic effects	0,5 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	1 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	0,75 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	1,5 mg/m3
		Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	0,5 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day
Xylene	e	Workers	Inhalation	Long-term systemic effects	221 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
		Workers	Inhalation	Long-term local ef- fects	221 mg/m3
		Workers	Inhalation	Acute local effects	442 mg/m3
		Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	65,3 mg/m



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		Consumers	Inhalation	1	Acute systemic ef- fects	260 mg/m3
		Consumers	Inhalation)	Long-term local ef- fects	65,3 mg/m3
		Consumers	Inhalation	1	Acute local effects	260 mg/m3
		Consumers	Skin cont	act	Long-term systemic effects	125 mg/kg bw/day
		Consumers	Ingestion		Long-term systemic effects	12,5 mg/kg bw/day
Ethyll	oenzene	Workers	Inhalatior)	Long-term systemic effects	77 mg/m3
		Workers	Inhalation	1	Acute local effects	293 mg/m3
		Workers	Skin cont	act	Long-term systemic effects	180 mg/kg bw/day
		Consumers	Inhalatior	1	Long-term systemic effects	15 mg/m3
		Consumers	Ingestion		Long-term systemic effects	1,6 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Tar, wood	Fresh water	0,003 mg/l
	Marine water	0,0003 mg/l
	Fresh water sediment	0,006 mg/kg dry
		weight (d.w.)
	Marine sediment	0,0006 mg/kg dry
		weight (d.w.)
	Soil	0,002 mg/kg dry
		weight (d.w.)
Phenol	Fresh water	0,0077 mg/l
	Marine water	0,00077 mg/l
	Intermittent use/release	0,031 mg/l
	Sewage treatment plant	2,1 mg/l
	Fresh water sediment	0,0915 mg/kg
	Marine sediment	0,00915 mg/kg
	Soil	0,136 mg/kg
m-Cresol	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	0,076 mg/l
	Sewage treatment plant	1,14 mg/l
	Fresh water sediment	0,71 mg/kg
	Marine sediment	0,071 mg/kg
	Soil	0,0831 mg/kg
p-Cresol	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	0,044 mg/l
	Sewage treatment plant	1,65 mg/l
	Fresh water sediment	0,85 mg/kg
	Marine sediment	0,085 mg/kg
	Soil	0,111 mg/kg
Xylene	Fresh water	0,327 mg/l
-	Intermittent use/release	0,327 mg/l



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II		Marine water		0,327 mg/l		
		Sewage treatr	nent plant	6,58 mg/l		
		Fresh water se	Fresh water sediment			
		Marine sedime	ent	12,46 mg/kg dry weight (d.w.)		
		Soil	Soil			
Ethyll	benzene	Fresh water		0,1 mg/l		
		Freshwater - i	ntermittent	0,1 mg/l		
		Marine water		0,01 mg/l		
		Sewage treatr	Sewage treatment plant			
		Fresh water se	ediment	13,7 mg/kg dry weight (d.w.)		
		Marine sedime	ent	1,37 mg/kg dry weight (d.w.)		
		Soil		2,68 mg/kg dry weight (d.w.)		
		Oral (Seconda	ary Poisoning)	20 mg/kg food		

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo-



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Fil	lter type	ommended guio	nt demonstrates exposures outside the rec- delines, use respiratory protection. uld conform to NS EN 14387 culates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	viscous liquid
Colour	:	dark, brown
Odour	:	strong
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	30 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	Not applicable
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available

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Dichlofenthion Formulation

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	Relativ	e density	: No data available					
	Density		:	: 1.009 - 1.051 g/cm ³ (20 °C)				
	Relative vapour density		:	No data available				
	Particle characteristics Particle size		:	Not applicable				
9.2	Other in	nformation						
	Explos	ives	:	Not explosive				
	Oxidizing properties		:	The substance c	or mixture is not classified as oxidizing.			
	Evaporation rate		:	No data availabl	e			

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Materials to avoid

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.	
10.4 Conditions to avoid Conditions to avoid	:	Heat, flames and sparks.	
10.5 Incompatible materials			

: Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Information on likely routes of exposure	:	Inhalation Skin contact
		Ingestion Eye contact

Acute toxicity

Harmful if swallowed.



rsion)	Revision Date: 28.09.2024	SDS Number:Date of last issue: 17.06.21560315-00019Date of first issue: 14.04.2	
Produ	uct:		
	oral toxicity	: Acute toxicity estimate: 1.713 mg/kg Method: Calculation method	
Acute inhalation toxicity		: Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Acute dermal toxicity		: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method	
<u>Com</u> p	oonents:		
Tar, v	vood:		
Acute	oral toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has icity	no acute oral tox-
Rosir	1:		
Acute	oral toxicity	: LD50 (Rat): 2.800 mg/kg	
Acute	dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has toxicity	no acute dermal
Tar, c	:oal:		
	oral toxicity	: LD50 (Rat): 1.700 mg/kg	
Acute	dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg	
	benzene:		
	oral toxicity	: LD50 (Rat): 3.500 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat): 17,8 mg/l Exposure time: 4 h Test atmosphere: vapour	
Acute	dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg	
Xylen	le:		
	oral toxicity	: LD50 (Rat): 3.523 mg/kg Method: Directive 67/548/EEC, Annex V, B.	1.
Acute	inhalation toxicity	: Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapour	

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rsion	Revision Date: 28.09.2024	SDS Number:Date of last issue: 17.06.20241560315-00019Date of first issue: 14.04.2017
I		Method: Expert judgement Remarks: Based on national or regional regulation.
Acute	dermal toxicity	: Acute toxicity estimate: 1.100 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.
Dichl	ofenthion (ISO):	
Acute	oral toxicity	: LD50 (Rat): 172 mg/kg
		LD50 (Rat): 270 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 1,75 mg/l
Acute	dermal toxicity	: LD50 (Rat): 355 mg/kg
		LD50 (Rabbit): 6.000 mg/kg
II Sodiu	ım hydroxide:	
	inhalation toxicity	: Assessment: Corrosive to the respiratory tract.
Phen	ol:	
Acute	oral toxicity	: LD50 (Rat): 650 mg/kg Method: OECD Test Guideline 401
		Acute toxicity estimate (Humans): 140 - 290 mg/kg Method: Expert judgement
Acute	inhalation toxicity	 LC0 (Rat): 0,9 mg/l Exposure time: 8 h Test atmosphere: dust/mist Assessment: Corrosive to the respiratory tract.
		Acute toxicity estimate (Humans): > 0,9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement
Acute	dermal toxicity	: LD50 (Rabbit): 660 mg/kg Method: OECD Test Guideline 402
		Acute toxicity estimate (Humans): 300 mg/kg Method: Expert judgement
II m-Cre	esol:	
Acute	oral toxicity	: LD50 (Rat): 121 mg/kg Remarks: Based on data from similar materials
Acute	inhalation toxicity	: Assessment: Corrosive to the respiratory tract.

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Acute	e dermal toxicity	:	LD50 (Rabbit): 30 Remarks: Based	01 mg/kg on data from similar materials
p-Cre	esol:			
Acute	oral toxicity	:	LD50 (Rat): 172	- 250 mg/kg
Acute	inhalation toxicity	:	Assessment: Cor	rosive to the respiratory tract.
Acute	e dermal toxicity	:	LD50 (Rabbit): 2	13 - 426 mg/kg
	corrosion/irritation es severe burns.			
<u>Com</u>	ponents:			
Tar, v	wood:			
Speci Metho		:	reconstructed hu OECD Test Guid	man epidermis (RhE) eline 439
Speci Metho		:	reconstructed hu OECD Test Guid	man epidermis (RhE) eline 431
Resu	lt	:	Skin irritation	
Rosir Speci Metho Resu	ies od	:	Rabbit OECD Test Guid No skin irritation	eline 404
Tor				
Tar, c Speci Resu	es	:	Rabbit Mild skin irritatior	1
Xyler)e.			
Speci Resu	es	:	Rabbit Skin irritation	
Dichl	ofenthion (ISO):			
Resu Rema	lt arks	:	Mild skin irritatior Based on data fro	n om similar materials
Sodiu	um hydroxide:			
Resul	-	:	Corrosive after 3	minutes or less of exposure
Phen	ol:			
Speci Resu		:	Rabbit Corrosive after 3	minutes to 1 hour of exposure

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m-Cre				
Specie Result		:	Rabbit Corrosive after 3	3 minutes to 1 hour of exposure
p-Cres Specie		:	Rabbit	
Result		:		3 minutes to 1 hour of exposure
Serio	us eye damage/eye i	irritati	ion	
Cause	es serious eye damag	je.		
<u>Comp</u>	oonents:			
Tar, w				
Result	t	:	Irritation to eyes	, reversing within 7 days
Rosin	:			
Specie		:	Rabbit	
Metho Result		:	OECD Test Guid No eye irritation	
. Koodaa	L .	•		
Tar, c				
Specie Result	es t	:	Human Irreversible effec	cts on the eye
Xylen Specie		:	Rabbit	
Result		:		, reversing within 21 days
Sodiu	ım hydroxide:			
Result	-	:	Irreversible effect	cts on the eye
Rema		:	Based on skin c	-
Pheno	ol:			
Specie		:	Rabbit	
Metho Result		:	OECD Test Guid	
rtebuit	L .	•		
m-Cre				
Specie Result		:	Rabbit Irreversible effect	cts on the eve
		•		· · · · · · · · · · · · · · · · · · ·
p-Cres			Date:	
Specie Result		:	Rabbit Irreversible effect	cts on the eye
			20 / 43	

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Respiratory or skin sensitisation

Skin sensitisation

Components:

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

<u></u>		
Tar, wood:		
Test Type Exposure routes	÷	Local lymph node assay (LLNA) Skin contact
Species	÷	Mouse
Method	:	OECD Test Guideline 429
Result	:	positive
Assessment	:	Probability or evidence of low to moderate skin sensitisation rate in humans
Rosin:		
Assessment	÷	Probability or evidence of skin sensitisation in humans
Remarks	:	Based on national or regional regulation.
Tar, coal:		
Test Type	:	Local lymph node assay (LLNA)
Exposure routes Species	÷	Skin contact Mouse
Method	÷	OECD Test Guideline 429
Result	:	positive
Remarks	:	Based on data from similar materials
Assessment	:	Probability or evidence of skin sensitisation in humans
Xylene:		
Test Type	:	Local lymph node assay (LLNA)
Exposure routes	÷	Skin contact
Species Result	:	Mouse negative
	•	nogano
Dichlofenthion (ISO):		
Exposure routes	:	Dermal
Assessment	÷	Does not cause skin sensitisation.
Result Remarks	÷	Weak sensitizer Based on data from similar materials
	•	
Sodium hydroxide:		
Test Type	:	Human repeat insult patch test (HRIPT)

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Expos Resul	sure routes t	:	Skin contact negative	
Phene Test T Expos Speci Metho Resul	Type sure routes es od		Buehler Test Skin contact Guinea pig OECD Test Guide negative	eline 406
p-Cre Test T Expos Speci Resul	Type sure routes es	: : : : : : : : : : : : : : : : : : : :	Draize Test Skin contact Guinea pig negative	
Suspe	cell mutagenicity ected of causing genetic conents:	def	ects.	
Tar, v		:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
Rosir Geno	i: toxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
				o mammalian cell gene mutation test est Guideline 476
				nosome aberration test in vitro est Guideline 473
Tar, c Geno	oal: toxicity in vitro	:	Method: OECD T Result: positive	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials
Germ sessn	cell mutagenicity- As- nent	:	mutagenicity tests mutagenicity assa	from in vivo non-mammalian somatic cell s, supported by positive results from in vitro ays. on national or regional regulation.

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Ethyl	benzene:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476
			Test Type: Chrom Result: negative	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Unsch mammalian liver of Species: Mouse Application Route Method: OECD To Result: negative	: Inhalation
Xyler	ne:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chrom Result: negative	nosome aberration test in vitro
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
Geno	toxicity in vivo	:	Test Type: Roder Species: Mouse Application Route Result: negative	nt dominant lethal test (germ cell) (in vivo) n: Skin contact
Phen	ol:			
Geno	toxicity in vitro	:	Test Type: Chrom Method: OECD Te Result: positive	nosome aberration test in vitro est Guideline 473
Geno	toxicity in vivo	:	cytogenetic assay Species: Mouse Application Route Method: OECD T Result: positive	: Intraperitoneal injection
Germ	cell mutagenicity- As-	:	Positive result(s)	from in vivo mammalian somatic cell muta-

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ersion 0	Revision Date: 28.09.2024		S Number: 60315-00019	Date of last issue: 17.06.2024 Date of first issue: 14.04.2017
sessn	nent		genicity tests.	
II m-Cro	esol:			
	toxicity in vitro	:		omosome aberration test in vitro Test Guideline 473
				terial reverse mutation assay (AMES) Test Guideline 471 e
Geno	toxicity in vivo	:	cytogenetic tes Species: Mous Application Rot	ute: Ingestion Test Guideline 475
p-Cre	esol:			
Geno	toxicity in vitro	:		omosome aberration test in vitro Test Guideline 473
				itro mammalian cell gene mutation test Test Guideline 476 e
Geno	toxicity in vivo	:	Species: Mous Application Rou	ute: Ingestion Test Guideline 478
	nogenicity cause cancer if swallow	ved		
-	oonents:			
Tar, c	coal:			
Speci Applic	es cation Route	:	Mouse Ingestion	
Resu	sure time It	:	2 Years positive	
Carcii ment	nogenicity - Assess-	:		ce from human epidemiological studies (oral) ed on national or regional regulation.
Ethyl	benzene:			
Speci Applio	es cation Route	:	Rat inhalation (vap	our)

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ersion .0	Revision Date: 28.09.2024	SDS Number:Date of last issue: 17.06.20241560315-00019Date of first issue: 14.04.2017
Expos Resul Rema		 104 weeks positive The mechanism or mode of action may not be relevant in humans.
Xylen	ie:	
	cation Route sure time	: Rat : Ingestion : 103 weeks : negative
Phen	ol:	
Speci Applic Expos Metho Resul	cation Route sure time od	 Mouse Ingestion 103 weeks OECD Test Guideline 451 negative
m-Cr	esol:	
Speci Applic Expos Resul Rema	cation Route sure time It	 Mouse, males Ingestion 105 weeks equivocal Based on data from similar materials
	cation Route sure time It	 Mouse, female Ingestion 106 - 107 weeks positive Based on data from similar materials
ment	nogenicity - Assess-	: Weight of evidence does not support classification as a car- cinogen
II p-Cre	sol:	
Speci Applio	es cation Route sure time It	 Mouse Ingestion 106 - 107 weeks negative Based on data from similar materials
-	oductive toxicity ected of damaging the	unborn child.
	oonents:	
Rosir	n:	
Effect	s on fertility	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat

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		Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative
Effect ment	s on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative
Etbyl	benzene:	
	s on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 416 Result: negative
Effect ment	s on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: Inhalation Method: OECD Test Guideline 414 Result: negative
Xyler	le:	
	s on fertility	 Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Result: negative
ment	s on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative
II Dichl	ofenthion (ISO):	
	is on foetal develop-	 Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 80 mg/kg body weight Result: Reduced foetal weight, Embryotoxic effects. Remarks: Based on data from similar materials
		Test Type: Development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Reduced foetal weight, Embryotoxic effects., No tera- togenic effects Remarks: Based on data from similar materials
Repro	oductive toxicity - As-	: Suspected of damaging the unborn child.



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ses	sment			
Phe	enol:			
Effe	ects on fertility	:	Species: Rat Application Rout	Test Guideline 416
Effe mei	ects on foetal develop- nt	:	Species: Mouse Application Rout	te: Ingestion Test Guideline 414
m-C	Cresol:			
Effe	ects on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	
Effe mei	ects on foetal develop- nt	:	Test Type: Pren Species: Rat Application Rout Result: negative	
n-C	resol:			
	ects on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	
Effe mer	ects on foetal develop- nt	:	Test Type: Emb Species: Rat Application Rout Result: negative	
May Cau	DT - single exposure y cause respiratory irritation uses damage to organs. rosive to the respiratory to			
<u>Cor</u>	mponents:			
Tar	, coal:			
Tar	oosure routes get Organs sessment	:		ce significant health effects in animals at con- 00 mg/kg bw or less.

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/ersion 3.0	Revision Date: 28.09.2024	SDS Number: 1560315-00019	Date of last issue: 17.06.2024 Date of first issue: 14.04.2017
Xylen	ie:		
Asses	ssment	: May cause re	spiratory irritation.
STOT	- repeated exposur	e	
-		ans through prolonged	d or repeated exposure.
<u>Comp</u>	oonents:		
Tar, c			
	et Organs ssment		ract duce significant health effects in animals at con- >0.02 to 0.2 mg/l/6h/d.
	sure routes	: inhalation (du	
	et Organs ssment		ract duce significant health effects in animals at con >0.02 to 0.2 mg/l/6h/d.
Ethyl	benzene:		
Expos Targe	sure routes et Organs ssment		
Xylen	ie:		
Targe	sure routes et Organs ssment		
Dichl	ofenthion (ISO):		
Targe	et Organs	: Nervous syste	
Asses	ssment	: Causes dama exposure.	ge to organs through prolonged or repeated
Rema	arks		nan experience.
Phen	ol:		
	et Organs		us system, Kidney, Liver, Skin
Asses	ssment	: May cause da exposure.	amage to organs through prolonged or repeated
Repe	ated dose toxicity		
Comp	oonents:		
Rosir	ו:		
Speci		: Rat, male	
NOAE Applic	EL cation Route	: 335 mg/kg : Ingestion	

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Expos Metho	sure time od	: 90 Days : OECD Test G	uideline 408
Ethyl	benzene:		
		: Rat : 0,868 mg/l : inhalation (va : 13 Weeks	pour)
Speci NOAE LOAE Applic Metho	EL EL cation Route	: Rat : 75 mg/kg : 250 mg/kg : Ingestion : OECD Test G	uideline 408
	es :L cation Route sure time	: Rat : > 0,2 - 1 mg/l : inhalation (va : 13 Weeks : Based on data	pour) a from similar materials
		: Rat : 150 mg/kg : Ingestion : 90 Days	
Dichl	ofenthion (ISO):		
		: Rat : 0,75 mg/kg : Oral : 90 d	
		: Dog : 0,75 mg/kg : Oral : 90 d	
Phen	ol:		
Speci LOAE Applic Expos Metho	L cation Route sure time	: Rat : 300 mg/kg : Ingestion : 90 Days : OECD Test G	uideline 408
		: Rat : >= 0,1 mg/l : inhalation (va : 74 Days	pour)

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		: Rabbit : 260 mg/kg : Skin contact : 18 Days	
m-Cresol: Species NOAEL Application Route Exposure time Method		 Rat 150 mg/kg Ingestion 13 Weeks OECD Test Guideline 408 	
	es L L ation Route ure time	 Rat 50 mg/kg 175 mg/kg Ingestion 90 Days OECD Test Guideline 408 	

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Components:

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Experience with human exposure

Components:

Dichlofenthion (ISO):

Skin contact	 Symptoms: irritating, central nervous system effects, sweating Remarks: Can be absorbed through skin. May cause sensitisation by skin contact.
Eye contact	: Symptoms: constriction of pupils, central nervous system ef- fects
Ingestion	: Symptoms: Nausea, Diarrhoea, Vomiting, sweating, Lachry- mation, constriction of pupils, Central nervous system depres- sion, Gastrointestinal disturbance, bronchospasm, central nervous system effects, Oedema

SECTION 12: Ecological information

12.1 Toxicity

Components:

Tar, wood:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 28 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 (Desmodesmus subspicatus (green algae)): 14 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Rosin:		
Toxicity to fish	:	LL50 (Danio rerio (zebra fish)): > 1 - 10 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 911 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Raphidocelis subcapitata (freshwater green alga)): > 1.000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201

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			1.000 mg/l Exposure time: 72 Test substance: V	celis subcapitata (freshwater green alga)): 2 h Vater Accommodated Fraction est Guideline 201
Toxici	ty to microorganisms	:	Exposure time: 3	sludge): > 10.000 mg/l h est Guideline 209
II Tar, c	oal:			
	ty to fish	:	Exposure time: 90 Test substance: V Method: OECD T	(zebra fish)): > 250 mg/l 6 h Vater Accommodated Fraction est Guideline 203 on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 44 Test substance: V Method: OECD T	agna (Water flea)): 2,8 mg/l 3 h Vater Accommodated Fraction est Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	Exposure time: 72 Method: OECD T	
			Exposure time: 72 Method: OECD T	
Ethyll	benzene:			
Toxici	ty to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): 4,2 mg/l 6 h est Guideline 203
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 1,8 - 2,4 mg/l 3 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokin mg/l Exposure time: 9	chneriella subcapitata (green algae)): 3,6 6 h
			NOEC (Pseudoki mg/l Exposure time: 9	rchneriella subcapitata (green algae)): 3,4 6 h
Toxici	ty to microorganisms	:	EC50 (Nitrosomo Exposure time: 24	

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	y to daphnia and other invertebrates (Chron- ity)	:	NOEC: 0,96 mg/l Exposure time: 7 c Species: Ceriodap	d hnia dubia (water flea)	
Xylene	:				
Toxicity	y to fish	:	LC50 (Oncorhynch Exposure time: 96	nus mykiss (rainbow trout)): 13,5 mg/l h	
	y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials		
Toxicity plants	y to algae/aquatic	:	EC50 (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h		
Toxicity	y to microorganisms	:	NOEC : > 100 mg/ Exposure time: 3 h Method: OECD Te Remarks: Based o	1	
Toxicity icity)	y to fish (Chronic tox-	:	NOEC: > 0,1 - < 1 Exposure time: 35 Species: Danio rer Method: OECD Te Remarks: Based o	d rio (zebra fish)	
	y to daphnia and other invertebrates (Chron- ity)	:	Method: OECD Te	d magna (Water flea)	
Dichlo	fenthion (ISO):				
	y to fish	:	LC50 (No species Exposure time: 96 Method: OECD Te		
			LC50 (Lepomis ma Exposure time: 96 Method: OECD Te		
	y to daphnia and other invertebrates	:	EC50 (Daphnia ma Exposure time: 48 Method: OECD Te		
M-Fact icity)	or (Acute aquatic tox-	:	100		
M-Fact toxicity	or (Chronic aquatic)	:	100		



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Ph	enol:			
То	kicity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 24,9 mg/l 5 h
	kicity to daphnia and other uatic invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 3,1 mg/l 8 h
To: pla	kicity to algae/aquatic nts	:	EC50 (Selenastru Exposure time: 96	m capricornutum (green algae)): 61,1 mg/l bh
То	kicity to microorganisms	:	IC50 (Nitrosomon Exposure time: 24	
Tox	xicity to fish (Chronic tox- y)	:	NOEC: 0,077 mg/ Exposure time: 60	
aqu	kicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	NOEC: 10 mg/l Exposure time: 16 Species: Daphnia	i d magna (Water flea)
 m-(Cresol:			
То	kicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 8,6 mg/l 5 h
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): > 99,5 mg/l s h
To: icit <u>y</u>	kicity to fish (Chronic tox- y)	:		d Iles promelas (fathead minnow) on data from similar materials
aqu	kicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	Exposure time: 21 Species: Daphnia	d magna (Water flea) on data from similar materials
л р-С	Cresol:			
	kicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 7,4 mg/l 5 h
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 3841	
To: pla	kicity to algae/aquatic nts	:	EC50 (Desmodes Exposure time: 48	mus subspicatus (green algae)): 7,8 mg/l 8 h
			EC10 (Desmodes Exposure time: 48	mus subspicatus (green algae)): 2,3 mg/l h



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Toxici	ty to microorganisms	:	IC50 (Nitrosomon Exposure time: 24			
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 1,35 mg/l Exposure time: 32 Species: Pimepha	2 d ales promelas (fathead minnow)		
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21	NOEC: 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)		
II 12.2 Persi	stence and degradabil	ity				
Comp	oonents:					
Tar, w	vood:					
Biode	gradability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD To	47 %		
Rosin	1:					
Biode	gradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 28 Method: OECD Te	71 %		
Ethyl	benzene:					
Biode	gradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 28	70 - 80 %		
Xylen	e:					
Biode	gradability	:		> 70 %		
Phene	ol:					
Biode	gradability	:	Result: Readily bi Biodegradation: 6 Exposure time: 10 Method: OECD To	62 %		
m-Cre						
Biode	gradability	:	Result: Readily bi Biodegradation: S Exposure time: 28	90 %		

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I			Method: OECD Test Guideline 301D
p-Cre Biode	e sol: egradability	:	Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 8 d
12.3 Bioa	ccumulative potential		
Com	ponents:		
Partit	wood: ion coefficient: n- nol/water	:	log Pow: 0,2 - 2,02
	n: ion coefficient: n- nol/water	:	log Pow: > 3 - 6,2 Method: OECD Test Guideline 117
	c oal: ion coefficient: n- nol/water	:	Remarks: No data available
Partit	Ibenzene: ion coefficient: n- nol/water	:	log Pow: 3,6
	ne: ion coefficient: n- nol/water	:	log Pow: 3,16 Remarks: Calculation
Partit	lofenthion (ISO): ion coefficient: n- nol/water	:	log Pow: 5,14
Phen	iol:		
Bioac	ccumulation	:	Species: Fish Bioconcentration factor (BCF): 17,5 Method: OECD Test Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 1,47
m-Cr	esol:		
Bioac	ccumulation	:	Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): 17 - 20
	ion coefficient: n- nol/water	:	log Pow: 1,96
p-Cre Bioac	esol: ccumulation	:	Species: Leuciscus idus (Golden orfe)

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			ion factor (BCF): 17 - 20 sed on data from similar materials
	ion coefficient: n- nol/water	: log Pow: 1,94	
	ility in soil ata available		
12.5 Resu	llts of PBT and vPvB	assessment	
<u>Prod</u> Asse	<u>uct:</u> ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or it and very bioaccumulative (vPvB) at levels of r.
12.6 Endo	ocrine disrupting prop	erties	
Prod	uct:		
Asse	ssment	ered to have e	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.
12.7 Othe	r adverse effects		
No da	ata available		
	N 13: Disposal cons te treatment methods	iderations	

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number



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AD	N	:	UN 2920				
AD	R	:	UN 2920				
RI	D	:	UN 2920				
IMI	DG	:	UN 2920				
IAT	ΓΑ	:	UN 2920				
14.2 UN	I proper shipping name						
AD	N	:	CORROSIVE LIC (Sodium hydroxid	QUID, FLAMMABLE, N.O.S. le, Ethylbenzene)			
AD	R	:	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene)				
RI)	:	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene)				
IMI	DG	:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene, Dichlofenthion (ISO))				
IA I	ΓΑ	:	: Corrosive liquid, flammable, n.o.s. (Sodium hydroxide, Ethylbenzene)				
14.3 Tra	ansport hazard class(es)						
			Class	Subsidiary risks			
AD	N	:	8	3			
AD	R	:	8	3			
RI	ס	:	8	3			
IMI	DG	:	8	3			
IAI	ГА	:	8	3			
14.4 Pa	cking group						
Cla Ha	N cking group assification Code zard Identification Number pels	: :	ll CF1 83 8 (3)				
Cla Ha Lat	PR cking group assification Code zard Identification Number pels nnel restriction code	: : : : : : : : : : : : : : : : : : : :	II CF1 83 8 (3) (D/E)				
Cla Ha	D cking group assification Code zard Identification Number pels	: : :	II CF1 83 8 (3)				



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Labe	king group	: :	II 8 (3) F-E, S-C	
Pacl aircr Pacl	king instruction (LQ) king group	:	855 Y840 II Corrosive, Flam	mable Liquids
Pacl ger a Pacl	A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group els		851 Y840 II Corrosive, Flam	mable Liquids
14.5 Env	ironmental hazards			
ADF	ironmentally hazardous	:	yes	
RID Envi	ironmentally hazardous	:	yes	
IMD Mari	G ine pollutant	:	yes	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 28: Tar, coal
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 75: If you intend to use this product as tattoo ink, please

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				contact your ven	dor.	
				here according to in the regulation, use/purpose or the restriction. Please tions in correspondetermine whether	mixture(s) are listed o their appearance irrespective of their ne conditions of the e refer to the condi- nding Regulation to er an entry is appli- ing on the market or	
	H - Candidate List of rn for Authorisation (Substances of Very Hig Article 59).	ih :	Not applicable		
	H - List of substance	s subject to authorisatio	n :	Not applicable		
•	,	nces that deplete the oz	one :	Not applicable		
Regula	ation (EU) 2019/1021 recast)	on persistent organic p	ollu- :	Not applicable		
Regula ment a	ation (EU) No 649/20	12 of the European Parl erning the export and im		Not applicable		
Seves	o III: Directive 2012/	18/EU of the European F olving dangerous substa		and of the Counc	il on the control of	
•				Quantity 1	Quantity 2	
H3		STOT SPECIFIC ORGAN TOXICI SINGLE EXPOS	TY –		200 t	

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t
P5c E1	ENVIRONMENTAL HAZARDS	100 t	200 t

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined

IECSC : not determined

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15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements				
H225		Highly flammable liquid and vapour.		
H226	:	Flammable liquid and vapour.		
H290	:	May be corrosive to metals.		
H301	:	Toxic if swallowed.		
H302	:	Harmful if swallowed.		
H304	:	May be fatal if swallowed and enters airways.		
H311	:	Toxic in contact with skin.		
H312		Harmful in contact with skin.		
H314		Causes severe skin burns and eye damage.		
H315		Causes skin irritation.		
H317	:	May cause an allergic skin reaction.		
H318	:	Causes serious eye damage.		
H319	:	Causes serious eye irritation.		
H331	:	Toxic if inhaled.		
H332	:	Harmful if inhaled.		
H335	:	May cause respiratory irritation.		
H341	:	Suspected of causing genetic defects.		
H350	:	May cause cancer if swallowed.		
H361d	:	Suspected of damaging the unborn child.		
H370	:	Causes damage to organs.		
H372	:	Causes damage to organs through prolonged or repeated		
H272		exposure.		
H373	•	May cause damage to organs through prolonged or repeated exposure.		
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.		
H412	:	Harmful to aquatic life with long lasting effects.		
EUH014	:	Reacts violently with water.		
EUH071	:	Corrosive to the respiratory tract.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Aquatic Acute	:	Short-term (acute) aquatic hazard		
Aquatic Chronic	:	Long-term (chronic) aquatic hazard		
Asp. Tox.	:	Aspiration hazard		
Carc.	:	Carcinogenicity		
Eye Dam.	:	Serious eye damage		
Eye Irrit.	:	Eye irritation		
Flam. Liq.	:	Flammable liquids		
Met. Corr.	:	Corrosive to metals		
Muta.	:	Germ cell mutagenicity		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Repr.		:	Reproductive toxi	citv	
Skin C	Corr.	:	Skin corrosion		
Skin Ir	rit.	:	Skin irritation		
Skin S	Sens.	:	: Skin sensitisation		
STOT	RE	:	: Specific target organ toxicity - repeated exposure		
STOT	SE	:	: Specific target organ toxicity - single exposure		
2000/3	39/EC	:	•	sion Directive 2000/39/EC establishing a first cupational exposure limit values	
2009/1	161/EU	:	a third list of indic	SION DIRECTIVE 2009/161/EU establishing ative occupational exposure limit values in Council Directive 98/24/EC and amending ctive 2000/39/EC	
	2011-12-06-1358	:		ional Exposure limits	
	39/EC / TWA	:	: Limit Value - eight hours		
	39/EC / STEL	:	Short term expos		
	161/EU / TWA	:	Limit Value - eigh		
	161/EU / STEL	:	Short term expos		
FOR-2 TWA	2011-12-06-1358 /	:	Long term exposi	ıre limit	
FOR-2 STEL	2011-12-06-1358 /	:	Short term expos	ure limit	
FOR-2	2011-12-06-1358 / T	:	Ceiling		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN



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- United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Further Information		
Sources of key data used to compile the Safety Data Sheet		data from raw material SDSs, OECD esults and European Chemicals Agen- u/
Classification of the mixtur	re:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 2	H341	Calculation method
Carc. 1A	H350	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 1	H370	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Based on product data or assessment
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN