Commission Regulation (EU) 2020/878



against

Deltamethrin (3%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	7731639-00010	Date of first issue: 13.01.2021

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

1.1	Product identifier Trade name	:	Deltamethrin (3%) Formulation
1.2	Relevant identified uses of th Use of the Sub- stance/Mixture		ubstance or mixture and uses advised a Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet MSD
	Company	•	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	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-
exposure, Category 2	longed or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air- ways.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.

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



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egory	term (chronic) aquati 1	c hazard, Cat- H410: \ effects.	√ery toxic to aquatic life with long lasting
2 Label	elements		
	Iling (REGULATION rd pictograms	(EC) No 1272/2008) :	
Signa	l word	: Danger	• • •
Hazaı	rd statements	H302 + H312 + H3 skin or if inhaled. H304 May be fata H315 Causes ski H317 May cause H318 Causes se H335 May cause H361fd Suspected ing the unborn chile H373 May cause repeated exposure	an allergic skin reaction. rious eye damage. respiratory irritation. of damaging fertility. Suspected of damag- d. damage to organs through prolonged or
Preca	utionary statements	Prevention:	
		flames and other ig P273 Avoid relea	r from heat, hot surfaces, sparks, open inition sources. No smoking. use to the environment. inctive gloves/ protective clothing/ eye protec n.
		CENTER/ doctor. P305 + P351 + P3 with water for seve	ral minutes. Remove contact lenses, if pre- b. Continue rinsing. Immediately call a / doctor.

Calcium dodecylbenzenesulphonate Nonylphenol, ethoxylated deltamethrin (ISO)



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2.3 Other hazards

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

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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.

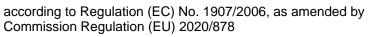
Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Xylene	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 esti- mate Acute inhalation toxicity (vapour): 11 mg/l Acute dermal toxici- ty: 1.100 mg/kg	>= 70 - < 90
Calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10





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ersion)	Revision Date: 28.09.2024		te of last issue: 06.04.2024 te of first issue: 13.01.2021	
			Acute toxicity esti- mate Acute oral toxicity:	
Nony	Iphenol, ethoxylated	9016-45-9	500 mg/kg Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 3 - < 10
deltar	methrin (ISO)	52918-63-5 258-256-6 607-319-00-X	Acute Tox. 3; H301 Acute Tox. 3; H301 Acute Tox. 3; H331 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361fd STOT SE 3; H335 STOT RE 1; H372 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000.000 M-Factor (Chronic aquatic toxicity): 1.000.000	>= 3 - < 10
2,6-D	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid mea	sures	
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).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	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. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	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.
If swallowed	:	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 important symptoms a	and e	ffects, both acute and delayed
Risks	:	Harmful if swallowed, in contact with skin or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure

This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

4.3 Indication of any immediate medical attention and special treatment needed

exposure.

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



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	reatment			
SECT		:	Treat symptomat	ically and supportively.
02011	ION 5: Firefighting meas	sur	es	
5.1 Ext	tinguishing media			
Su	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
	nsuitable extinguishing edia	:	High volume wate	er jet
5.2 Sp	ecial hazards arising from	the	e substance or mi	ixture
	pecific hazards during fire- ghting	:	fire. Flash back possi Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health.
	azardous combustion prod- cts	:	Carbon oxides Nitrogen oxides (Bromine compou Metal oxides Sulphur compour	nds
5.3 Ad	vice for firefighters			
Sp	pecial protective equipment or firefighters	:		e, wear self-contained breathing apparatus. tective equipment.
Sp oc	pecific extinguishing meth- ds	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
6.1 Pei	TON 6: Accidental releas	_		

Personal precautions	:	Remove all sources of ignition.
		Use personal protective equipment.
		Follow safe handling advice (see section 7) and personal pro-
		tective 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. according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		barriers). Retain and dispo Local authorities	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 Metho	ds and material for co	ontainment and clean	ing up	
Methods for cleaning up		Soak up with ine Suppress (knock spray jet. For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	ols should be used. rt absorbent material. a down) gases/vapours/mists with a water provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational 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	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	 If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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Hygiene measures		 Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to environment. If exposure to chemical is likely during typical use, provide flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminar work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipmer appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 		
7.2 Condi	tions for safe storage,	including any including	compatibilities	
Requirements for storage areas and containers		: Keep in prop tightly closed accordance	erly labelled containers. Store locked up. Keep d. 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 perc Flammable s Pyrophoric li Pyrophoric s Self-heating Substances flammable g Explosives Gases	substances and mixtures oxides solids quids olids substances and mixtures and mixtures, which in contact with water, emit	

7.3 Specific end use(s)

Specific use(s)

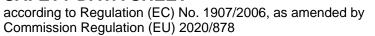
: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Xylene	1330-20-7	TWA	25 ppm	FOR-2011-			
			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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	skin	Indicative		

	skin, Indicative						
	STEL 100 ppm 2000/3						
			442 mg/m3				
		Further information: Identifies the possibility of significant uptake through the skin, Indicative					
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal			
	Further information: DSEN, Skin						
		Wipe limit	100 µg/100 cm ²	Internal			

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Xylene	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/m3
	Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	65,3 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
2,6-Di-tert-butyl-p- cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day
Calcium dodecylben- zenesulphonate	Workers	Inhalation	Long-term systemic effects	52 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	52 mg/m3
	Workers	Inhalation	Long-term local ef- fects	52 mg/m3
	Workers	Inhalation	Acute local effects	52 mg/m3
	Workers	Skin contact	Long-term systemic effects	57,2 mg/kg bw/day



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		Workers	Skin contact	Acute systemic ef- fects	80 mg/kg bw/day
		Workers	Skin contact	Long-term local ef- fects	1,57 mg/kg bw/day
		Workers	Skin contact	Acute local effects	1,57 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	26 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	26 mg/m3
		Consumers	Inhalation	Acute local effects	26 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	26 mg/m3
		Consumers	Skin contact	Long-term systemic effects	28,6 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
		Consumers	Skin contact	Acute local effects	0,787 mg/kg bw/day
		Consumers	Skin contact	Long-term local ef- fects	0,787 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	13 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	13 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Xylene	Fresh water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
	Marine water	0,327 mg/l
	Sewage treatment plant	6,58 mg/l
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Marine sediment	12,46 mg/kg dry weight (d.w.)
	Soil	2,31 mg/kg dry weight (d.w.)
2,6-Di-tert-butyl-p-cresol	Fresh water	0,199 µg/l
	Intermittent use/release	0,02 μg/l
	Marine water	0,02 μg/l
	Sewage treatment plant	0,17 mg/l
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Soil	0,04769 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	8,33 mg/kg food
Calcium dodecylbenzenesulpho- nate	Fresh water	0,28 mg/l
	Freshwater - intermittent	0,654 mg/l

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Marine water	0,458 mg/l
Sewage treatment plant	50 mg/l
Fresh water sediment	27,5 mg/kg dry weight (d.w.)
Marine sediment	2,75 mg/kg dry weight (d.w.)
Air	10 mg/m3
Soil	25 mg/kg dry weight (d.w.)
Oral	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- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)
	-	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

: liquid

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Co	lour	:	yellow	
Od	our	•	No data available)
Od	our Threshold	•	No data available)
Ме	Iting point/freezing point	:	No data available	9
Init ran	ial boiling point and boiling ge	:	No data available)
Fla	mmability (solid, gas)	:	Not applicable	
Fla	mmability (liquids)	:	No data available)
	per explosion limit / Upper nmability limit	:	No data available	
	wer explosion limit / Lower nmability limit	:	No data available	•
Fla	sh point	:	45 - 51 °C	
Aut	to-ignition temperature	:	No data available)
De	composition temperature	:	No data available)
pН		:	4 - 5	
	cosity Viscosity, kinematic	:	No data available	9
	ubility(ies) Water solubility	:	soluble	
	rtition coefficient: n- anol/water	:	Not applicable	
Vaj	pour pressure	:	No data available	
Re	lative density	:	No data available	9
De	nsity	:	No data available	9
Re	lative vapour density	:	No data available)
	rticle characteristics Particle size	:	Not applicable	

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9.2 Other information Explosives		: Not explosive	9
Oxidizing properties		: The substance	ce or mixture is not classified as oxidizing.
Evaporation rate		: No data avail	able
Molecular weight		: No data avail	able

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

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 Materials to avoid	:	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	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 1.291 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

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Acute	Acute dermal toxicity		Acute toxicity esti Method: Calculation		
Comp	oonents:				
Xylen	ie:				
Acute	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 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.		
Calci	um dodecylbenzenesu	lph	onate:		
	oral toxicity	-	LD50 (Rat): > 500 Method: OECD Te		
Acute	dermal toxicity	:	 LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials 		
•• Nony	Iphenol, ethoxylated:				
Acute	oral toxicity	:	LD50 (Rat): 500 -	2.000 mg/kg	
delta:	methrin (ISO):				
	oral toxicity	:	LD50 (Rat): 66,7 i	mg/kg	
			LD50 (Rat): 9 - 13	39 mg/kg	
			LD50 (Mouse): 19	9 - 34 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): 0,8 m Exposure time: 2 Test atmosphere:	ĥ	
Acute	dermal toxicity	:	LD50 (Rabbit): 2.0	000 mg/kg	
			LD50 (Rat): > 800) mg/kg	
	toxicity (other routes of histration)	:	LD50 (Rat): 2,5 m Application Route		

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			LD50 (Mouse): 10 Application Route	
2 6-D)i-tert-butyl-p-cresol:			
	e oral toxicity		LD50 (Rat): > 6.00 Method: OECD Te	
Acute	e dermal toxicity		LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity	
-	corrosion/irritation			
Com	ponents:			
Xylei	ne:			
Spec Resu	ies		Rabbit Skin irritation	
Calci	ium dodecylbenzenesi	ulpho	nate:	
Spec	-	-	Rabbit	
Meth			OECD Test Guide	line 404
Resu Rema			Skin irritation Based on data fro	m similar materials
Nony	/lphenol, ethoxylated:			
Spec	•	:	Rabbit	
Meth	od		OECD Test Guide	line 404
Resu	llt	:	No skin irritation	
	methrin (ISO):			
Spec			Rabbit	
Resu	lit	:	No skin irritation	
2,6-D)i-tert-butyl-p-cresol:			
Spec	ies		Rabbit	
Meth			OECD Test Guide	line 404
Resu Rema			No skin irritation Based on data fro	m similar materials
	ous eye damage/eye iri		n	
	es serious eye damage			
	ponents:			
Xylei			Data	
Spec	16S	:	Rabbit	

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Result	t	: Irritation to eyes, reversing within 21 days
Calciu	um dodecylbenzene	sulphonate:
Specie	es	: Rabbit
Metho		: OECD Test Guideline 405
Result		: Irreversible effects on the eye
Rema	rks	: Based on data from similar materials
	phenol, ethoxylated	l:
Specie		: Rabbit
Metho	d	: OECD Test Guideline 405
Result	t	: Irreversible effects on the eye
deltar	nethrin (ISO):	
Specie		: Rabbit
Result	t	: Moderate eye irritation
2,6-Di	-tert-butyl-p-cresol:	
Specie	es	: Rabbit
Metho	d	: OECD Test Guideline 405
Result	t	: No eye irritation
Rema	rks	: Based on data from similar materials
Respi	ratory or skin sensi	tisation
Skin a	sensitisation	
	ause an allergic skin	reaction.
Respi	ratory sensitisation	
-	assified based on ava	
<u>Comp</u>	oonents:	
Xylen	e:	
Test T		: Local lymph node assay (LLNA)
	sure routes	: Skin contact
Specie		: Mouse
Resul	t	: negative
Calciu	um dodecylbenzene	sulphonate:
Test T	vpe	: Maximisation Test
	sure routes	: Skin contact
Specie		: Guinea pig
Metho	od	: OECD Test Guideline 406
Result		: negative
Rema	rks	: Based on data from similar materials
Nonyl	phenol, ethoxylated	l:
Test T	уре	: Maximisation Test

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



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Exposure	e routes	:	Skin contact				
Species		:	Guinea pig				
Result		:	negative				
Remarks			Based on data from similar materials				
deltame	thrin (ISO):						
Test Typ	е	:	Maximisation Tes	t			
Exposure	e routes	:	Dermal				
Species			Guinea pig				
Result		:	negative				
Test Typ		:		sult patch test (HRIPT)			
Exposure Species	e routes	÷	Dermal Humans				
Result		:	positive				
itesuit		·	positive				
2,6-Di-te	rt-butyl-p-cresol:						
Test Typ		:		sult patch test (HRIPT)			
Exposure	e routes	:	Skin contact				
Species Result		: Humans : negative					
	ell mutagenicity sified based on availa	able	information.				
Not class Compon	sified based on availa	able	information.				
Not class Compon Xylene:	sified based on availa nents:	able	information.				
Not class Compon Xylene:	sified based on availa	able :		rial reverse mutation assay (AMES)			
Not class Compon Xylene:	sified based on availa nents:		Test Type: Bacter Result: negative	rial reverse mutation assay (AMES) nosome aberration test in vitro			
Not class Compon Xylene:	sified based on availa nents:		Test Type: Bacter Result: negative Test Type: Chron Result: negative				
Not class Compon Xylene:	sified based on availa nents:		Test Type: Bacter Result: negative Test Type: Chron Result: negative Test Type: In vitro Result: negative	nosome aberration test in vitro			
Not class Compon Xylene: Genotoxi	sified based on availa nents:		Test Type: Bacter Result: negative Test Type: Chron Result: negative Test Type: In vitro Result: negative Test Type: In vitro malian cells Result: negative	nosome aberration test in vitro o mammalian cell gene mutation test o sister chromatid exchange assay in mam nt dominant lethal test (germ cell) (in vivo)			
Not class <u>Compon</u> Xylene: Genotoxi	sified based on availa tents: icity in vitro	:	Test Type: Bacter Result: negative Test Type: Chron Result: negative Test Type: In vitro Result: negative Test Type: In vitro malian cells Result: negative Test Type: Roder Species: Mouse Application Route Result: negative	nosome aberration test in vitro o mammalian cell gene mutation test o sister chromatid exchange assay in mam nt dominant lethal test (germ cell) (in vivo)			

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)
	Method: OECD Test Guideline 471
	Result: negative

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I			Remarks: Based	on data from similar materials
			Result: negative	o mammalian cell gene mutation test
				on data from similar materials
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
				on data from similar materials
Ger	Genotoxicity in vivo		 Test Type: Mammalian erythrocyte micronucleus tes cytogenetic assay) Species: Mouse Application Route: Ingestion 	
			Result: negative Remarks: Based	on data from similar materials
II Nor	ylphenol, ethoxylated:			
	otoxicity in vitro	:	Result: negative	ial reverse mutation assay (AMES)
			Remarks: Based	on data from similar materials
	amethrin (ISO):			
Ger	otoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: DNA F Test system: Escl Result: negative	
				nosomal aberration nese hamster ovary cells
				o mammalian cell gene mutation test nese hamster lung cells DAEL: 20 mg/kg
Ger	otoxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
			Test Type: domin Species: Mouse Application Route Result: negative	
			Test Type: sister Species: Mouse	chromatid exchange assay
			19/25	

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Version 4.0	Revision Date: 28.09.2024	SDS Number: 7731639-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
			one marrow Route: Oral ative
2 6-D)i-tert-butyl-p-cresol:		
	otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
		Test Type: Result: neg	Chromosome aberration test in vitro ative
Genc	otoxicity in vivo	cytogenetic Species: Ra	Route: Ingestion
Not c	inogenicity classified based on ava ponents: ne:	lable information.	
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 103 weeks : negative	
dalta	mothrin (ISO):		
Spec Appli Expo NOA LOAE Resu	cation Route sure time EL EL	: Mouse, mal : oral (feed) : 104 weeks : 8 mg/kg boo : 4 mg/kg boo : positive : Lymph node	dy weight
	cation Route sure time	: Rat, male a : oral (feed) : 2 Years : negative	nd female
	cation Route sure time EL	: Dog, male a : oral (feed) : 2 Years : 1 mg/kg boo : negative	

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



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Specie Applic	ation Route sure time	:	Rat Ingestion 22 Months negative	
Suspe	oductive toxicity ected of damaging fertil ponents:	lity. S	uspected of dama	ging the unborn child.
Xylen	e.			
	s on fertility	:	Species: Rat	eneration reproduction toxicity study e: inhalation (vapour)
Effect ment	s on foetal develop-	:	Species: Rat	vo-foetal development e: inhalation (vapour)
II Calciu	um dodecylbenzenes	ulnh	onate:	
	s on fertility	:	Test Type: Comb reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion est Guideline 422 on data from similar materials
Effect	s on foetal develop-	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion est Guideline 422 on data from similar materials
deltar	nethrin (ISO):			
	s on fertility	:	Species: Rat Application Route Early Embryonic weight Symptoms: No ef Remarks: Signific	Development: NOAEL: 50 mg/kg body fects on fertility, Embryo-foetal toxicity cant toxicity observed in testing generation reproduction toxicity study

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



Version 4.0	Revision Date: 28.09.2024	SDS Numbe 7731639-000	
		weight	bryonic Development: LOAEL: 84 - 149 mg/kg body s: No effects on fertility, Embryo-foetal toxicity
		Species: Application Fertility: I Symptom	e: Fertility Rat, male on Route: Oral .OAEL: 1 mg/kg body weight is: Effects on fertility rgans: Testes
Effect ment	s on foetal develop-	Species: Application Developring Result: St	e: Development Mouse on Route: oral (gavage) nental Toxicity: LOAEL: 1 mg/kg body weight keletal malformations : Maternal toxicity observed.
		Species: Developr	e: Development Rat, female nental Toxicity: NOAEL: 10 mg/kg body weight s: No effects on foetal development
		Species: Application Developr	e: Development Rabbit, female on Route: oral (gavage) nental Toxicity: NOAEL: 16 mg/kg body weight s: No effects on foetal development
Repro	oductive toxicity - As- nent		dence of adverse effects on sexual function and nd/or on development, based on animal experiments.
2,6-D	i-tert-butyl-p-cresol:		
	s on fertility	Species:	on Route: Ingestion
Effect ment	s on foetal develop-	Species:	on Route: Ingestion
	- single exposure cause respiratory irritation	on.	
Com	oonents:		
Xylen	ie:		
Asses		: May caus	e respiratory irritation.

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/ersion I.0	Revision Date: 28.09.2024	SDS Numbe 7731639-000				
	methrin (ISO):					
Asses	Assessment		se respiratory irritation.			
	- repeated exposur					
-	cause damage to orga	ns through proid	onged or repeated exposure.			
Xylen	ie:					
Exposure routes Target Organs Assessment		: Auditory : Shown to	inhalation (vapour) Auditory system Shown to produce significant health effects in animals at con- centrations of >0.2 to 1 mg/l/6h/d.			
Calci	um dodecylbenzene	sulphonate:				
Assessment			No significant health effects observed in animals at concentra- tions of 100 mg/kg bw or less.			
delta	methrin (ISO):					
	sure routes	: Ingestion				
	et Organs ssment	 Central nervous system, Immune system Causes damage to organs through prolonged or repeat exposure. 				
	sure routes	: inhalatio	n (dust/mist/fume)			
	et Organs ssment		nervous system damage to organs through prolonged or repeated e.			
2,6-D	i-tert-butyl-p-cresol:					
Asses	ssment	-	icant health effects observed in animals at concentra 00 mg/kg bw or less.			
Repe	ated dose toxicity					
<u>Comp</u>	oonents:					
Xylen						
Speci LOAE		: Rat : > 0,2 - 1	ma/l			
Applic	cation Route		n (vapour)			
Expos Rema	sure time	: 13 Week : Based or	s n data from similar materials			
Speci		: Rat				
LÕAE		: 150 mg/ł : Ingestior				
	cation Route sure time	: 90 Days	1			

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Calci	um dodecylbenzene	sulphonate:
Speci LOAE Applie	es EL cation Route sure time od	 Rat > 200 mg/kg Ingestion 6 - 7 Weeks OECD Test Guideline 422 Based on data from similar materials
	EL cation Route sure time od	 Rabbit > 100 mg/kg Skin contact 28 Days OECD Test Guideline 410 Based on data from similar materials
Speci NOAE LOAE Applie Expos	EL EL cation Route sure time et Organs	 Rat, male and female 1 mg/kg 2,5 mg/kg Oral 13 Weeks Nervous system hyperexcitability
	EL cation Route sure time	 Rat 3 mg/m3 inhalation (dust/mist/fume) 2 wk / 5 d/wk / 6 h/d Local irritation, respiratory tract irritation
Expo	EL EL cation Route sure time et Organs	 Dog 0,1 mg/kg 1 mg/kg Oral 13 Weeks Nervous system Dilatation of the pupil, Vomiting, Tremors, Diarrhoea, Salivation
Expo	ΞL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system
Expo	EL cation Route sure time et Organs	 Mouse 6 mg/kg Oral 12 Weeks Immune system immune system effects

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



Deltamethrin (3%) Formulation

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2,6-Di-tert-butyl-p-cresol:

Species NOAEL	:	Rat
NOAEL	:	25 mg/kg
Application Route	:	Ingestion
Exposure time	:	22 Months

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

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.

Experience with human exposure

Components:

deltamethrin (ISO):

Inhalation	 Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling, Palpitation, Blurred vision, muscle twitching
Skin contact	 Symptoms: Skin irritation, Erythema, pruritis, Headache, Nausea, Vomiting, Dizziness, tingling, Sweating, muscle twitching, Blurred vision, Fatigue, anorexia, Allergic reactions
Ingestion	: Symptoms: muscle pain, Small pupils

SECTION 12: Ecological information

12.1 Toxicity

Components:

Xylene:

Toxicity to fish :		LC50 (Oncorhynchus mykiss (rainbow trout)): 13,5 mg/l Exposure time: 96 h
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

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



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aquat	aquatic invertebrates		Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials		
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h		
Toxici	ty to microorganisms	:	NOEC : > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials		
Toxici icity)	ity to fish (Chronic tox-	:	NOEC: > 0,1 - < 1 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210 Remarks: Based on data from similar materials		
	ty to daphnia and other ic invertebrates (Chron- city)		Exposure time: 21 Species: Daphnia Method: OECD Te	d magna (Water flea)	
II Calciu	um dodecylbenzenesu	lphe	onate:		
	ty to fish	:	LC50 (Leuciscus i Exposure time: 96	dus (Golden orfe)): > 1 - 10 mg/l 5 h on data from similar materials	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 1 - 10 mg/l s h on data from similar materials	
Toxici plants	ity to algae/aquatic	:	100 mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 10 - ? h on data from similar materials	
			1 mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 0,1 - ? h on data from similar materials	
Toxici	ty to microorganisms	:	EC50 (activated s Exposure time: 3 I Method: OECD Te Remarks: Based o	h	
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 28 Species: Pimepha		

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



rsion	Revision Date: 28.09.2024		0S Number: 31639-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021		
Toxicity aquatic ic toxic	y to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 21 Species: Daphnia	l d magna (Water flea) on data from similar materials		
Nonvig	ohenol, ethoxylated:					
	y to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0,1 - 1 mg/l 5 h on data from similar materials		
	/ to daphnia and other invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials			
Toxicity plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To			
			Exposure time: 72 Method: OECD Te			
M-Fact icity)	or (Acute aquatic tox-	:	1			
Toxicity icity)	y to fish (Chronic tox-	:				
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC: > 0,001 - 0,01 mg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp) Remarks: Based on data from similar materials			
M-Fact toxicity	or (Chronic aquatic)	:	10			
deltam	ethrin (ISO):					
Toxicity	y to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0,0004		
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0,00039 mg/l ን h		
	y to daphnia and other invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0,0037 µg/l 3 h		

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



ersion D	Revision Date: 28.09.2024		9S Number: 31639-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,0035 mg/l 3 h
			LC50 (Gammarus Exposure time: 96	fasciatus (freshwater shrimp)): 0,0003 µg/l 3 h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
M-Fac icity)	ctor (Acute aquatic tox-	:	1.000.000	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0,000022 Exposure time: 36 Species: Pimepha	
			NOEC: 0,000017 Exposure time: 26 Species: Pimepha	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC: 0,0041 µg Exposure time: 21 Species: Daphnia	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1.000.000	
2,6-Di	-tert-butyl-p-cresol:			
Toxici	ty to fish	:	Exposure time: 96	(zebra fish)): > 0,57 mg/l 5 h 67/548/EEC, Annex V, C.1.
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
Toxici	ty to microorganisms	:	EC50 : > 10.000 r	ng/l

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			Exposure time: 3 Method: OECD T				
To: icit	xicity to fish (Chronic tox- y)	:	NOEC: 0,053 mg, Exposure time: 30 Species: Oryzias Method: OECD T) d latipes (Japanese medaka)			
aq	xicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	Exposure time: 2				
	Factor (Chronic aquatic ricity)	:	1				
12.2 Pe	rsistence and degradabil	ity					
<u>Co</u>	mponents:						
Ху	lene:						
Bic	odegradability	:		> 70 %			
Ca	Calcium dodecylbenzenesulphonate:						
Bic	odegradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials			
No	nylphenol, ethoxylated:						
Bic	odegradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials			
de	Itamethrin (ISO):						
Sta	ability in water	:	Hydrolysis: 0 %(3	0 d)			
	-Di-tert-butyl-p-cresol:						
Bic	odegradability	:	Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T	4,5 %			
12.3 Bi	oaccumulative potential						
<u>Co</u>	mponents:						
Ху	lene:						
Pa	rtition coefficient: n- anol/water	:	log Pow: 3,16 Remarks: Calcula	ition			

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Deltamethrin (3%) Formulation

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	um dodecylbenzenesu	ulph	onate:				
	cumulation	:	Bioconcentration factor (BCF): < 500 Remarks: Based on data from similar materials				
	on coefficient: n- ol/water	:	log Pow: 4,77 Remarks: Calcula	ation			
Nony	Iphenol, ethoxylated:						
Partiti	on coefficient: n- ol/water	:	log Pow: 4,48				
delta	methrin (ISO):						
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.800			
	on coefficient: n- ol/water	:	log Pow: 4,6				
2,6-D	i-tert-butyl-p-cresol:						
Bioac	cumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1.800			
	on coefficient: n- ol/water	:	: log Pow: 5,1				
12.4 Mobi	lity in soil						
Comp	oonents:						
delta	methrin (ISO):						
Distrit	oution among environ- al compartments	:	log Koc: 7,2				
12.5 Resu	Its of PBT and vPvB a	sse	ssment				
Produ	uct:						
Asses	ssment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			

12.6 Endocrine disrupting properties

Pr	od	uc	t:	

Assessment	: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU)
	2018/605 or Commission Delegated Regulation (EU)
	2017/2100.

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



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	oonents: Iphenol, ethoxylated:		
Asses	ssment		s considered to have endocrine disrupting ding to REACH Article 57(f) for the environ-
	r adverse effects ita available		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Α	DN	:	UN 1993
Α	DR	:	UN 1993
R	ID	:	UN 1993
IN	/IDG	:	UN 1993
IA	ATA	:	UN 1993
14.2 U	N proper shipping name		
Α	DN	:	FLAMMABLE LIQUID, N.O.S. (Xylene)
Α	DR	:	FLAMMABLE LIQUID, N.O.S. (Xylene)
R	ID	:	FLAMMABLE LIQUID, N.O.S. (Xylene)
IN	/IDG	:	FLAMMABLE LIQUID, N.O.S. (Xylene, deltamethrin (ISO), 2,6-Di-tert-butyl-p-cresol)

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Deltamethrin (3%) Formulation

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	ΙΑΤΑ		:	Flammable liquid, (Xylene)	n.o.s.
14.3	Transp	oort hazard class(es)			
				Class	Subsidiary risks
	ADN		:	3	
	ADR		:	3	
	RID		:	3	
	IMDG		:	3	
	ΙΑΤΑ		:	3	
14.4	Packin	ng group			
	Classifi	g group ication Code I Identification Number	:	III F1 30 3	
	Classifi Hazard Labels	g group ication Code I Identification Number restriction code	:	III F1 30 3 (D/E)	
	Classifi	g group ication Code I Identification Number	:	III F1 30 3	
	IMDG Packing Labels EmS C		:	III 3 F-E, <u>S-E</u>	
	IATA (Packing aircraft	g instruction (cargo	:	366	
	Packin	g instruction (LQ) g group	:	Y344 III Flammable Liquic	ls
		Passenger) g instruction (passen- craft)	:	355	
	Packing	g instruction (LQ) g group	: : :	Y344 III Flammable Liquic	ls

14.5 Environmental hazards

ADN

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



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Enviro	nmentally hazardous	:	yes	
ADR Enviro	nmentally hazardous	:	yes	
RID Enviro	nmentally hazardous	:	yes	
IMDG Marine	e 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) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,	 Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 Number on list 46b: Nonylphenol, ethographicad
mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	ethoxylated Number on list 46a.: Nonylphenol, ethoxylated Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation (Annex XIV)	 Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not. Nonylphenol, ethoxylated
Regulation (EC) on substances that deplete the ozone	: Not applicable

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



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layer Regul	ation (EU) 2019/1021	on persistent organic	oollu- : Not applicable

tants (recast) Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the c

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	Quantity 1 5.000 t	Quantity 2 50.000 t
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

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		
H226	:	Flammable liquid and vapour.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
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.
H361fd	:	Suspected of damaging fertility. Suspected of damaging the

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



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			unborn child.			
H372		:	Causes damage to organs through prolonged or repeated exposure if inhaled.			
H37	2	:		o organs through prolonged or repeated		
H37	3	:		ge to organs through prolonged or repeated		
H400		:	Very toxic to aqua	tic life.		
H410		:		tic life with long lasting effects.		
H41	2	:	Harmful to aquation	c life with long lasting effects.		
Full	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			
Eye Dam.		:	Serious eye damage			
Eye Irrit.		:	Eye irritation			
Flam. Liq.		:	Flammable liquids			
Repr.		:	Reproductive toxi	city		
Skin Irrit.		:	Skin irritation			
Skin Sens.		:	Skin sensitisation			
STOT RE		:	Specific target org	an toxicity - repeated exposure		
STOT SE		:	Specific target organ toxicity - single exposure			
200	0/39/EC	:	Europe. Commiss	ion Directive 2000/39/EC establishing a first		
			list of indicative of	ccupational exposure limit values		
FOR-2011-12-06-1358		:	Norway. Occupational Exposure limits			
2000/39/EC / TWA		:	Limit Value - eight			
2000/39/EC / STEL		:	Short term exposi	ure limit		
FOR-2011-12-06-1358 /		:	Long term exposu	ire limit		
TW	4					

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



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

Further information

Sources of key data used compile the Safety Data Sheet	to :	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/	
Classification of the mi	xture:	Classification procedure:	
Flam Lig 3	Н2'	6 Based on product data or assessment	

Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Calculation method
Acute Tox. 4	H332	Calculation method
Acute Tox. 4	H312	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361fd	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
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