UK REACH Regulations SI 2019/758



Deltamethrin (2.5%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
6.0	13.09.2024	9374089-00009	Date of first issue: 27.08.2021

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

1.1	Product identifier Trade name	:	Deltamethrin (2.5%) Formulation
1.2	Relevant identified uses of th	ne 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 Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3 Skin irritation, Category 2 Serious eye damage, Category 1 Skin sensitisation, Category 1	H226: Flammable liquid and vapour. H315: Causes skin irritation. H318: Causes serious eye damage. H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 1B	H340: May cause genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the un- born child.
Specific target organ toxicity - single ex- posure, Category 3	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1	H373: May cause damage to organs through pro- longed or repeated exposure. H304: May be fatal if swallowed and enters air- ways.



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Short-term (acute) aquatic hazard, Cate- gory 1 Long-term (chronic) aquatic hazard, Cat-			H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting	
egory 1			effects	S
2.2 Labe	elements			

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	*	
Signal word	Danger	
Hazard statements	H226 H304 H315 H317 H318 H336 H340 H350 H361 H373 H410	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. May cause genetic defects. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements	Preventio	on:
	P201 P210	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response	e:
	P305 + P3	351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor.
	P391	Collect spillage.
Hazardous components which Solvent naphtha (petroleum),	ight aromatic	

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts

4-Nonylphenol, branched, ethoxylated

deltamethrin (ISO)

Restricted to professional users.



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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) 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)
Solvent naphtha (petroleum), light aromatic	64742-95-6 265-199-0 649-356-00-4	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Muta. 1B; H340 Carc. 1B; H350 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 50 - < 70
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Not Assigned 271-529-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
4-Nonylphenol, branched, ethoxylat- ed	127087-87-0	Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 3 - < 10
deltamethrin (ISO)	52918-63-5 258-256-6 607-319-00-X	Acute Tox. 3; H301 Acute Tox. 3; H301 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	>= 2.5 - < 3

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2,6-D	i-tert-butyl-p-cresol	128-37-0 204-881-4	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 Aquatic Acute 1; H400 Aquatic Chronic 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1
			M-Factor (Chronic aquatic toxicity): 1

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).
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.



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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 i	important symptoms a	nd	effects, both acute	e and delayed		
Risks		:	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeate exposure. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate			
			or organophosphate poisoning.			
4.3 Indica	tion of any immediate	me	dical attention and	d special treatment needed		
Treat	ment	:	Treat symptomat	ically and supportively.		
SECTION	N 5: Firefighting mea	sur	es			
5.1 Extino	guishing media					
-	ble extinguishing media	dia : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
Unsu	itable extinguishing	: High volume water jet				

5.2 Special hazards arising from the substance or mixture

media

Specific hazards during fire- fighting	 Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	: Carbon oxides Nitrogen oxides (NOx) Bromine compounds Sulphur oxides Metal oxides



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5.3 Advic	e for firefighters				
Special protective equipment for firefighters		:	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
Specific extinguishing meth- ods		:	cumstances and t Use water spray t	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	

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 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. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Retain and dispose of contaminated wash water.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment 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- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-
		employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

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

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SECTION 7: Handling and storage

7.1 Precautions for safe handling **Technical measures** See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust Local/Total ventilation : ventilation. Use explosion-proof electrical, ventilating and lighting equipment. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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 the environment. If exposure to chemical is likely during typical use, provide eye Hygiene measures flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated 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 equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 7.2 Conditions for safe storage, including any incompatibilities Keep in properly labelled containers. Store locked up. Keep Requirements for storage tightly closed. Keep in a cool, well-ventilated place. Store in areas and containers accordance with the particular national regulations. Keep away from heat and sources of ignition. Do not store with the following product types: Advice on common storage Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids Pyrophoric liquids

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Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

Pyrophoric solids

flammable gases

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			Explosives Gases Very acutely toxic	c substances and mixtures
•	c end use(s) c 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)			
deltamethrin (ISO)	52918-63-5	TWA	15 μg/m3 (OEB 3)	Internal	
	Further information: DSEN, Skin				
		Wipe limit	100 μg/100 cm²	Internal	
2,6-Di-tert-butyl-p-	128-37-0	TWA	10 mg/m3	GB EH40	
cresol			-		

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	85 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	89 mg/kg bw/day
Polyethylene glycol castor oil	Workers	Inhalation	Long-term systemic effects	16.4 mg/m3
	Workers	Skin contact	Long-term systemic effects	4.67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1.67 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	1.67 mg/kg

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			effects	bw/day
Pred	icted No Effect Concer	ntration (PNEC)		
Subs	tance name	Environmenta	al Compartment	Value
2,6-D)i-tert-butyl-p-cresol	Fresh water	•	0.199 µg/l
		Intermittent us	se/release	0.02 µg/l
		Marine water		0.02 µg/l
		Sewage treat	ment plant	0.17 mg/l
		Fresh water s		0.0996 mg/kg dry weight (d.w.)
		Marine sedim	ent	0.00996 mg/kg dry weight (d.w.)
		Soil		0.04769 mg/kg dry weight (d.w.)
		Oral (Second	ary Poisoning)	8.33 mg/kg food
	enesulfonic acid, C10-1 derivs., calcium salts		5, 5,	0.023 mg/l
		Marine water		0.002 mg/l
		Sewage treat	ment plant	3 mg/l
		Fresh water s	ediment	0.174 mg/kg dry weight (d.w.)
		Marine sedim	ent	0.017 mg/kg dry weight (d.w.)
		Soil		0.62 mg/kg dry weight (d.w.)
Polve	ethylene glycol castor oil	Fresh water		0.000 mg/l
		Freshwater -	intermittent	0.0661 mg/l
		Marine water		0.000 mg/l
ll –		Marine water	- intermittent	0.00661 mg/l
		Fresh water s		0.0129 mg/kg dry weight (d.w.)
		Marine sedim	ent	0.00129 mg/kg dry weight (d.w.)
		Soil		0.00258 mg/kg dry weight (d.w.)

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.

1

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.

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Hand	l protection		ield or other full face protection if there is a rect contact to the face with dusts, mists, or		
M	aterial	: Chemical-resis	tant gloves		
Remarks			Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.		
Skin a	and body protection	 Work uniform or laboratory coat. Additional body garments should be used based upon the tabeing performed (e.g., sleevelets, apron, gauntlets, disposa suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potential contaminated clothing. 			
	iratory protection	: If adequate loc sure assessme ommended gui Equipment sho	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 BS EN 14387		
Fi	lter type	: Combined part	culates and organic vapour type (A-P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid yellow No data available No data available
рН	:	4 - 5
Melting point/freezing point	:	< -5 °C
Initial boiling point and boiling	:	No data available
range Flash point	:	40 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available

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with air.

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	ensity	: 0.909 - 0.927 (g/cm³ (20 °C)
Р	olubility(ies) Water solubility artition coefficient: n- ctanol/water	: partly miscible : Not applicable	
	uto-ignition temperature ecomposition temperatur	: No data availa e : No data availa	
V	scosity Viscosity, kinematic	: No data availa	ble
E	xplosive properties	: Not explosive	
0	xidizing properties	: The substance	e or mixture is not classified as oxidizing.
	her information ammability (liquids)	: Not applicable	
Μ	olecular weight	: No data availa	ble
Ρ	article size	: Not applicable	

SECTION 10: Stability and reactivity

10.1 Re Not	activity : classified as a reactivity ha	zar	d.
	emical stability ble under normal conditions	i.	
10.3 Po	ssibility of hazardous read	ctio	ns
Haz	zardous reactions	:	Flammable liquid and vapour. Vapours may form explosive mixture wi Can react with strong oxidizing agents.
10.4 Co	nditions to avoid		
Co	nditions to avoid	:	Heat, flames and sparks.
	ompatible materials terials to avoid	:	Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

Solvent naphtha (petroleum), light aromatic:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.61 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Acute oral toxicity	: LD50 (Rat): 4,445 mg/kg
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Acute dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
-----------------------	--

4-Nonylphenol, branched, ethoxylated:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
deltamethrin (ISO):		
Acute oral toxicity	:	LD50 (Rat): 66.7 mg/kg
		LD50 (Rat): 9 - 139 mg/kg
		LD50 (Mouse): 19 - 34 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.8 mg/l

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rsion)	Revision Date: 13.09.2024		DS Number: 74089-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
			Exposure time: 2 Test atmosphere	
Acute	dermal toxicity	:	LD50 (Rabbit): 2	,000 mg/kg
			LD50 (Rat): > 80	0 mg/kg
	toxicity (other routes of histration)	:	LD50 (Rat): 2.5 r Application Route	
			LD50 (Mouse): 1 Application Rout	
2,6-Di	i-tert-butyl-p-cresol:			
Acute	oral toxicity	:	LD50 (Rat): > 6,0 Method: OECD 1	000 mg/kg Fest Guideline 401
Acute	dermal toxicity	:		000 mg/kg Fest Guideline 402 e substance or mixture has no acute dermal
	corrosion/irritation es skin irritation.			
Cause Comp Solve Specie Metho	es skin irritation. <u>conents:</u> ent naphtha (petroleum es od), li :	Rabbit OECD Test Guid	eline 404
Cause <u>Comp</u> Solve Specia Metho Result	es skin irritation. <u>conents:</u> ent naphtha (petroleum es od t	:	Rabbit OECD Test Guid Skin irritation	
Cause Comp Solve Specie Metho Result	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es pd t enesulfonic acid, C10-4	:	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc	
Cause Comp Solve Specie Metho Result Benze	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od it enesulfonic acid, C10-4 es	:	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit	ium salts:
Cause Comp Solve Specie Metho Result	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od it enesulfonic acid, C10-7 es od	:	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc	ium salts:
Cause Comp Solve Specie Metho Result Specie Metho Result	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od it enesulfonic acid, C10-7 es od	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation	ium salts:
Cause Comp Solve Specia Metho Result Benze Specia Result 4-Nor	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od t enesulfonic acid, C10- es od t nylphenol, branched, e es	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit	ium salts: leline 404
Cause Comp Solve Specia Metho Result Benze Specia Result 4-Non Specia Metho	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od t enesulfonic acid, C10-4 es od t nylphenol, branched, er es od	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit OECD Test Guid	ium salts: leline 404
Cause Comp Solve Specia Metho Result Benze Specia Result 4-Nor	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es pd t enesulfonic acid, C10-4 es pd t nylphenol, branched, er es pd t	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit OECD Test Guid No skin irritation	ium salts: leline 404
Cause Comp Solve Specia Metho Result Specia Result A-Non Specia Metho Result Result Result	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es pd t enesulfonic acid, C10-4 es pd t nylphenol, branched, er es pd t	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit OECD Test Guid No skin irritation	ium salts: leline 404 leline 404
Cause Comp Solve Specie Metho Result Specie Metho Result Specie Result Cause Metho Result Result Cause	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od t enesulfonic acid, C10-4 es od t nylphenol, branched, er es od t methrin (ISO):	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit OECD Test Guid No skin irritation	ium salts: leline 404 leline 404
Cause Comp Solve Specia Metho Result Specia Result A-Non Specia Metho Result Result Result	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od t enesulfonic acid, C10-4 es od t nylphenol, branched, er es od t urks methrin (ISO): es	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit OECD Test Guid No skin irritation Based on data fr	ium salts: leline 404 leline 404
Cause Comp Solve Specie Metho Result Specie Metho Result Result Rema deltar Specie Result	es skin irritation. <u>ponents:</u> ent naphtha (petroleum es od t enesulfonic acid, C10-4 es od t nylphenol, branched, er es od t urks methrin (ISO): es	13-a	Rabbit OECD Test Guid Skin irritation alkyl derivs., calc Rabbit OECD Test Guid Skin irritation xylated: Rabbit OECD Test Guid No skin irritation Based on data fr Rabbit	ium salts: leline 404 leline 404

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Metho	d	:	OECD Test Gu	
Result		:	No skin irritation	
Rema	rks	:	Based on data	from similar materials
	us eye damage/eye		on	
_	es serious eye damaç	je.		
	onents:			
	nt naphtha (petrole	um), li	-	
Specie		:	Rabbit	
Metho Result			OECD Test Gu No eye irritatior	
INESUI		•	No eye imatioi	I
Benze	enesulfonic acid, C1	0-13-a	alkyl derivs., cal	cium salts:
Specie		:	Rabbit	
Metho	d	:	OECD Test Gu	ideline 405
Result	t	:	Irreversible effe	ects on the eye
4-Non	ylphenol, branched	l etho	vylated:	
Specie			Rabbit	
Metho		:	OECD Test Gu	ideline 405
Result		:	No eye irritation	
Rema	rks	:		from similar materials
deltan	nethrin (ISO):			
Specie		:	Rabbit	
Result		:	Moderate eye in	rritation
2.6-Di	-tert-butyl-p-cresol:			
Specie		:	Rabbit	
Metho		:	OECD Test Gu	ideline 405
Result		:	No eye irritation	
Rema	rks	:	Based on data	from similar materials
Respi	ratory or skin sensi	itisatio	on	
Skin s	sensitisation			
May c	ause an allergic skin	reaction	on.	
Respi	ratory sensitisation	1		
	assified based on ava		information.	
•	onents:			

Test Type Exposure routes Species Result	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Deltamethrin (2.5%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Test Type Exposure routes		Magnusson-Kligman-Test Skin contact
Species Method		Guinea pig
Method	:	OECD Test Guideline 406
Remarks	:	Based on data from similar materials

4-Nonylphenol, branched, ethoxylated:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative
Test Type Exposure routes Species Result Remarks	: Based on data from similar materials

deltamethrin (ISO):

Species

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Result	: negative
Test Type	: Human repeat insult patch test (HRIPT)
Exposure routes	: Dermal

: Humans

positive

:

Result

2,6-Di-tert-butyl-p-cresol:		
Test Type Exposure routes Species Result	:	Human repeat insult patch test (HRIPT) Skin contact Humans negative

Germ cell mutagenicity

May cause genetic defects.

Components:

Solvent naphtha (petroleum), light aromatic:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Result: positive
Genotoxicity in vivo	: Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 6.0	Revision Date: 13.09.2024	SDS Numbe 9374089-00	
Germ sessr			result(s) from in vivo heritable germ cell mutagenicity nammals
Benz	enesulfonic acid, C10-	13-alkyl deriv	vs., calcium salts:
Geno	otoxicity in vitro	Method: Result: r	be: Bacterial reverse mutation assay (AMES) Directive 67/548/EEC, Annex, B.13/14 negative s: Based on data from similar materials
4-No	nylphenol, branched, e	thoxylated:	
	otoxicity in vitro	: Test Typ Method: Result: r	be: Bacterial reverse mutation assay (AMES) OECD Test Guideline 471 negative s: Based on data from similar materials
		Method: Result: r	be: Chromosome aberration test in vitro OECD Test Guideline 473 negative s: Based on data from similar materials
		Method: Result: r	be: In vitro mammalian cell gene mutation test OECD Test Guideline 476 negative s: Based on data from similar materials
II dolta	methrin (ISO):		
	otoxicity in vitro	: Test Typ Result: r	pe: Bacterial reverse mutation assay (AMES) negative
			be: DNA Repair tem: Escherichia coli negative
			be: Chromosomal aberration tem: Chinese hamster ovary cells negative
		Test sys	be: In vitro mammalian cell gene mutation test tem: Chinese hamster lung cells tration: LOAEL: 20 mg/kg positive
Geno	toxicity in vivo	Species	ion Route: Oral
		Species	ion Route: Oral

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		Test Type: sis Species: Mou Cell type: Bor Application Ro Result: negati	ne marrow pute: Oral
26-0)i-tert-butyl-p-cresol:		
	otoxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES)
		Test Type: In Result: negati	vitro mammalian cell gene mutation test
		Test Type: Ch Result: negati	nromosome aberration test in vitro
Genc	otoxicity in vivo	cytogenetic te Species: Rat	utagenicity (in vivo mammalian bone-marrow est, chromosomal analysis) pute: Ingestion ive
May	inogenicity cause cancer. ponents:		
Spec Appli	cation Route sure time	 iight aromatic: Mouse Skin contact 2 Years positive 	
Carci ment	nogenicity - Assess-	: Sufficient evic	lence of carcinogenicity in animal experiments
delta	methrin (ISO):		
Expo NOA LOAE Resu	cation Route sure time EL EL	 Mouse, male oral (feed) 104 weeks 8 mg/kg body 4 mg/kg body positive Lymph nodes 	weight weight
Spec Appli Expo Resu	cation Route sure time	: Rat, male and : oral (feed) : 2 Years : negative	I female
Spec	ies	: Dog, male and	d female

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	—	: oral (feed) : 2 Years : 1 mg/kg body : negative	weight
Specie Applic	ation Route ure time	: Rat : Ingestion : 22 Months : negative	
Suspe	ductive toxicity cted of damaging fertili onents:	ty or the unborn chil	ld.
	nt naphtha (petroleun s on fertility	: Test Type: Re test Species: Rat	production/Developmental toxicity screening oute: inhalation (vapour) /e
Effects	s on foetal develop-	Species: Rat	ubryo-foetal development oute: inhalation (vapour) ve
4-Non	ylphenol, branched, e	thoxvlated:	
	ductive toxicity - As-	: Some evidenc	e of adverse effects on sexual function and on development, based on animal experiments.
deltar	nethrin (ISO):		
Effects	s on fertility	Species: Rat Application Ro Early Embryor weight Symptoms: No	ree-generation reproduction toxicity study oute: oral (feed) nic Development: NOAEL: 50 mg/kg body o effects on fertility, Embryo-foetal toxicity nificant toxicity observed in testing
		Species: Rat Application Ro Early Embryor weight	o-generation reproduction toxicity study oute: Oral hic Development: LOAEL: 84 - 149 mg/kg body o effects on fertility, Embryo-foetal toxicity
		Test Type: Fei Species: Rat, i	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ersion)	Revision Date: 13.09.2024	SDS Number: 9374089-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
		Application Ro Fertility: LOAE Symptoms: Eff Target Organs:	L: 1 mg/kg body weight ects on fertility
Effect: ment	s on foetal develop-	Developmental Result: Skeleta	
		•	
		Developmental	
Repro sessm	ductive toxicity - As- nent		e of adverse effects on sexual function and on development, based on animal experime
2.6-Di	-tert-butyl-p-cresol:		
	s on fertility	: Test Type: Two Species: Rat Application Rou Result: negativ	
Effects ment	s on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	
	- single exposure ause drowsiness or dia	zziness.	
<u>Comp</u>	onents:		
Solve	nt naphtha (petroleu	m), light aromatic:	
Asses	sment	: May cause dro	wsiness or dizziness.
deltar Asses	nethrin (ISO):		piratory irritation.
12262	SIICIII	. Way cause les	
	- repeated exposure		or repeated exposure.

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Version 6.0	Revision Date: 13.09.2024	SDS Number: 9374089-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
<u>Com</u>	oonents:		
delta	methrin (ISO):		
Expos Targe	sure routes et Organs ssment		s system, Immune system Je to organs through prolonged or repeated
Targe	sure routes et Organs ssment	 inhalation (dus Central nervou Causes damage exposure. 	
2,6-D	i-tert-butyl-p-cresol:		
	ssment		nealth effects observed in animals at concentra- g/kg bw or less.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Solve	ent naphtha (petroleur	n), light aromatic:	
		: Rat : 500 mg/kg : Ingestion : 28 Days	
4-Nor	nylphenol, branched,	ethoxylated:	
Speci LOAE Applic	es EL cation Route sure time od	: Rat : 150 mg/kg : Ingestion : 90 Days : OPPTS 870.31	00 from similar materials
delta	methrin (ISO):		
Speci NOAE LOAE Applic Expos	es EL EL cation Route sure time et Organs	 Rat, male and 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous system hyperexcitabilities 	n
	EL cation Route sure time	: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation,	

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Deltamethrin (2.5%) Formulation

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Expos	L L ation Route ure time t Organs	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous system : Dilatation of the pution	ıpil, Vomiting, Tremors, Diarrhoea, Saliva-
Expos	L	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system	
Expos	L ation Route ure time t Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune system : immune system ef	fects
2,6-Di Specie	-tert-butyl-p-cresol: es	: Rat	

/kg
ion
nths

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:

Solvent naphtha (petroleum), light aromatic:

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.

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, Nau-

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Deltamethrin (2.5%) Formulation

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Inges	tion	Blurred vision, I	Dizziness, tingling, Sweating, muscle twitching, Fatigue, anorexia, Allergic reactions scle pain, Small pupils

SECTION 12: Ecological information

12.1 Toxicity

Components:

Solvent naphtha (petroleum), light aromatic:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		NOELR (Pseudokirchneriella subcapitata (microalgae)): 0.5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOELR: 2.6 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211
Benzenesulfonic acid, C10-1	3-a	Ikyl derivs., calcium salts:
Toxicity to fish	:	LC50 : > 1 - < 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials

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rsion)	Revision Date: 13.09.2024		9S Number: 74089-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
			1 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0.1 6 h on data from similar materials
Toxicit icity)	ty to fish (Chronic tox-	:		
	ty to daphnia and other c invertebrates (Chron- city)		NOEC: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials	
4-Non	ylphenol, branched, e	tho	xylated:	
Toxicit	y to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg 5 h on data from similar materials
	ty to daphnia and other cinvertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			Exposure time: 72 Method: OECD T	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
Toxicit icity)	y to fish (Chronic tox-	:		
	ty to daphnia and other c invertebrates (Chron- city)	:		
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
deltan	nethrin (ISO):			
I Taviai	y to fish		LC50 (Cyprinodo	n variegatus (sheepshead minnow)): 0.0004

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ersion 0	Revision Date: 13.09.2024	-	9S Number: 74089-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
			mg/l Exposure time: 96	ô h
			LC50 (Oncorhync Exposure time: 96	chus mykiss (rainbow trout)): 0.00039 mg/l 5 h
	ty to daphnia and other c invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0.0037 μg/l 3 h
			EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.0035 mg/l 3 h
			LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
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 c invertebrates (Chron- city)	:	NOEC: 0.0041 µg Exposure time: 27 Species: Daphnia	
M-Fac toxicity	etor (Chronic aquatic y)	:	1,000,000	
2,6-Di	-tert-butyl-p-cresol:			
Toxici	ty to fish	:	Exposure time: 96	o (zebra fish)): > 0.57 mg/l 6 h 67/548/EEC, Annex V, C.1.
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxici [:] plants	ty to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD To	

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			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
Toxicit	y to microorganisms	:	EC50 : > 10,000 Exposure time: 3 Method: OECD T	
Toxicit icity)	y to fish (Chronic tox-	:		
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	
M-Fac toxicity	tor (Chronic aquatic /)	:	1	
12.2 Persis	stence and degradabil	ity		
Comp	onents:			
Solver	nt naphtha (petroleum), li	ght aromatic:	
Biodeg	gradability	:	Result: Inherently Biodegradation: 9 Exposure time: 25	94 %
Benze	nesulfonic acid, C10-	13-a	alkyl derivs., calci	um salts:
Biodeg	gradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	100 %
4-Non	ylphenol, branched, e	tho	xylated:	
Biodeg	gradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials
deltan	nethrin (ISO):			
Stabilit	ty in water	:	Hydrolysis: 0 %(3	30 d)
2,6-Di-	-tert-butyl-p-cresol:			
Biodeg	gradability	:	Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T	4.5 %

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Deltamethrin (2.5%) Formulation

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II

12.3 Bioaccumulative potential

Components:

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Partition coefficient: n-	:	log Pow: 2.89
octanol/water		
deltamethrin (ISO):		
Bioaccumulation	:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 1,800
Partition coefficient: n- octanol/water	:	log Pow: 4.6
2,6-Di-tert-butyl-p-cresol:		
Bioaccumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 330 - 1,800
Partition coefficient: n- octanol/water	:	log Pow: 5.1

12.4 Mobility in soil

Components:

deltamethrin (ISO):

Distribution among environ- : log Koc: 7.2 mental compartments

12.5 Results of PBT and vPvB assessment

Dr	od		4.
ГІ	ou	uuu	ι.

Assessment	:	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.

12.6 Other adverse effects

Product:

Endocrine disrupting poten- tial	:	This substance/mixture contains components considered to have endocrine disrupting properties for environment according to LIK REACH Article 57(f)
		ing to UK REACH Article 57(f).

Components:

4-Nonylphenol, branched, ethoxylated:

Endocrine disrupting poten- tial	:	The substance is considered to have endocrine disrupting properties according to UK REACH Article 57(f) for environment
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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 ex- pose 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

	ADN	:	UN 3295		
	ADR	:	UN 3295		
	RID	:	UN 3295		
	IMDG	:	UN 3295		
	ΙΑΤΑ	:	UN 3295		
14.	2 UN proper shipping name				
	ADN	:	HYDROCARBONS, L	IQUID, N.O.S.	
	ADR	:	HYDROCARBONS, L	IQUID, N.O.S.	
	RID	:	HYDROCARBONS, LIQUID, N.O.S.		
	IMDG	:	HYDROCARBONS, L (deltamethrin (ISO), 2	IQUID, N.O.S. 2,6-Di-tert-butyl-p-cresol)	
	ΙΑΤΑ	:	Hydrocarbons, liquid,	n.o.s.	
14.	3 Transport hazard class(es)				
			Class	Subsidiary risks	
	ADN	:	3		
	ADR	:	3		
	RID	:	3		
	IMDG	:	3		
	ΙΑΤΑ	:	3		
14.	4 Packing group				

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Deltamethrin (2.5%) Formulation

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P: C H	lassifi	group cation Code Identification Number		III F1 30 3	
Pi C H La	lassifi lazard abels	group cation Code Identification Number restriction code	:	III F1 30 3 (D/E)	
P C H	lassifi	group cation Code Identification Number	:	III F1 30 3	
P: La	MDG Packing abels imS Co	ı group ode	:	III 3 F-E, S-D	
Pa ai Pa Pa	acking ircraft) acking	Cargo) i instruction (cargo i instruction (LQ) i group	:	366 Y344 III Flammable Liquid	ds
Pi ge Pi Pi	acking er airc acking	g instruction (LQ) group	:	355 Y344 III Flammable Liquid	
		nmental hazards			
	DN Inviron	mentally hazardous	:	yes	
	DR Inviron	mentally hazardous	:	yes	
	RID Inviron	mentally hazardous	:	yes	
	NDG 1arine	pollutant	:	yes	
1469	nooio	I procautions for use	-		

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.



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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable for product as supplied. Remarks

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (A	nnex 17)	:	Conditions of rest lowing entries sho Number on list 3	riction for the fol- ould be considered:
UK REACH List of restrictions (A			: Solvent naphtha aromatic	
			Number on list 29 (petroleum), light	: Solvent naphtha aromatic
			Number on list 46 branched, ethoxy	a.: 4-Nonylphenol, lated
UK REACH List of restrictions (A	EACH List of rostrictions (Appay 17)		Number on list 46 branched, ethoxy	ib: 4-Nonylphenol, lated
			here according to in the regulation, use/purpose or th restriction. Please tions in correspon determine whether	nixture(s) are listed their appearance irrespective of their e conditions of the e refer to the condi- ading Regulation to er an entry is appli- ng on the market or
UK REACH Candidate list of sub concern (SVHC) for Authorisation		:		ranched, ethoxylat-
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as ar ain)		:	Not applicable	
Regulation (EC) on substances the layer	hat deplete the ozone	:	Not applicable	
UK REACH List of substances su (Annex XIV)	ubject to authorisation	:	4-Nonylphenol, bi ed	ranched, ethoxylat-
GB Export and import of hazardo Informed Consent (PIC) Regulati		:	4-Nonylphenol, bi ed	ranched, ethoxylat-
Control of Major Accident Hazard	ds Regulations 2015 (CC	OMA		Quentity 0
E1	ENVIRONMENTAL HAZARDS		Quantity 1 100 t	Quantity 2 200 t

ENVIRONMENTAL	100 t
HAZARDS	

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P5c	l of Major Accident Ha	FLAMMABLE LIC		5,000 t	50,000 t
34		Petroleum produc gasolines and na (b) kerosenes (in fuels), (c) gas oils ing diesel fuels, h heating oils and g blending streams heavy fuel oils (e tive fuels serving purposes and wit properties as reg flammability and mental hazards a products referred points (a) to (d)	cts: (a) phthas, cluding jet s (includ- nome gas oil),(d)) alterna- the same h similar ards environ- us the	⁷ 2,500 t	25,000 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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.
		lines.

Full text of H-Statements

H226 :	Flammable liquid and vapour.
H301 :	Toxic if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Deltamethrin (2.5%) Formulation

Version 6.0	Revision Date: 13.09.2024	SDS Number: 9374089-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021		
H319 H331 H335 H336 H340 H350 H361 H361fd H372 H372 H372 H400 H410 H411 H412		 Toxic if inhaled. May cause resp May cause drow May cause drow May cause gend May cause cand Suspected of da Suspected of da unborn child. Causes damage exposure if inha Causes damage exposure if swa Very toxic to aq Toxic to aquatic 	Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Suspected of damaging fertility. Suspected of damaging the		
	xt of other abbreviation	•	atic life with long lasting effects.		
Acute Aquati Aquati Asp. To Carc. Eye Da Eye Irr Flam. I Muta. Repr. Skin Irr Skin S STOT STOT GB EH	Tox. c Acute c Chronic ox. am. it. ∟iq. rit. ens. RE SE	 Acute toxicity Short-term (acute Long-term (chrown constraints) Aspiration haza Carcinogenicity Serious eye dare Eye irritation Flammable liquities Germ cell mutage Reproductive too Skin irritation Skin sensitisation Specific target of UK. EH40 WEL 	nage ids genicity xicity		
Waterv Road; ing of I	vays; ADR - Agreeme AIIC - Australian Inven Materials; bw - Body w	ent concerning the lit tory of Industrial Che reight; CLP - Classifie	ational Carriage of Dangerous Goods by Inland International Carriage of Dangerous Goods by emicals; ASTM - American Society for the Test- cation Labelling Packaging Regulation; Regula- agen or Reproductive Toxicant; DIN - Standard		

y td 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 - Interna-



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tional 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 - 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 to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Sheet		cy, mp.//echa.europa.eu/

Classification of the mi	xture:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 1B	H340	Calculation method
Carc. 1B	H350	Calculation method
Repr. 2	H361	Calculation method
STOT SE 3	H336	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

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

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.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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