

Version	Revision Date:	SDS Number:	Date of last issue: 26.06.2024
5.0	28.09.2024	10853344-00009	Date of first issue: 15.09.2022

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

1.1 Product identifier		
Trade name	:	Deltamethrin (1%) Liquid Formulation
Other means of identification	:	Wipeout (A004558)
1.2 Relevant identified uses of the	he s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	saf	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 Carcinogenicity, Category 1B Specific target organ toxicity - repeated exposure, Category 2 Short-term (acute) aquatic hazard, Cate- gory 1	 H317: May cause an allergic skin reaction. H350: May cause cancer. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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



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Hazard pictograms		:		!
Signa	l word	:	Danger	•
Hazaı	rd statements	:	H350 May H373 May or re	cause an allergic skin reaction. cause cancer. cause damage to organs through prolonged peated exposure. toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	P273 Avoi P280 Wea	in special instructions before use. d release to the environment. r protective gloves/ protective clothing/ eye ection/ face protection.
			atter P333 + P313 If advid	exposed or concerned: Get medical advice/ ntion. skin irritation or rash occurs: Get medical ce/ attention. ect spillage.

Hazardous components which must be listed on the label:

deltamethrin (ISO) Formaldehyde

Additional Labelling

Restricted to professional users.

2.3 Other hazards

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

Ecological information: 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).



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
deltamethrin (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, Immune system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
		M-Factor (Acute aquatic toxicity): 1,000,000 M-Factor (Chronic aquatic toxicity): 1,000,000	
Formaldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Flam. Gas 1B; H221 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335	>= 0.2 - < 1
		specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 %	

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



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			STOT SE 3; H335 >= 5 % Skin Sens. 1A; H317 >= 0.2 %	
			Acute toxicity esti- mate	
			Acute oral toxicity: 100 mg/kg Acute inhalation tox- icity (gas): 100 ppm Acute dermal toxicity: 270 mg/kg	
Nony	lphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.2
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
Metha	anol	67-56-1 200-659-6 603-001-00-X	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 (optic nerve, Central nervous system)	>= 0.1 - < 1
			specific concentration limit STOT SE 1; H370 >= 10 % STOT SE 2; H371 3 - < 10 %	
			Acute toxicity esti- mate	
			Acute oral toxicity: 300 mg/kg Acute inhalation tox- icity (vapour): 3 mg/l Acute dermal toxicity: 300 mg/kg	

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 soap and plenty of water.
	Remove contaminated clothing and shoes.
	Get medical attention. Wash clothing before reuse.
	Thoroughly clean shoes before reuse.
In case of eye contact	: Flush eyes with water as a precaution.
	Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting.
	Get medical attention. Rinse mouth thoroughly with water.
.2 Most important symptoms	and effects, both acute and delayed
Risks	: May cause an allergic skin reaction.
	May cause cancer. 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.
.3 Indication of any immediate	e medical attention and special treatment needed
Treatment	: Treat symptomatically and supportively.

5.1	Extir	nguis	hing	media
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Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam

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				Carbon dioxide (C Dry chemical	02)
Unsuitable extinguishing media		:	None known.		
5.2 S	Special	hazards arising from	the	e substance or mi	xture
		:	Exposure to com	pustion products may be a hazard to health.	
Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (NOx) Bromine compounds		
5.3 A	Advice	for firefighters			
	Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. tective equipment.
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	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	:	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. Local authorities should be advised if significant spillages cannot be contained.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material.
		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-

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		employed in the mine which regu Sections 13 and	terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	9	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Hygiene measures	:	environment. If exposure to chemical is likely during typical use, provide eye 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,	incl	luding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives

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Gases

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7.3 Specific end use(s)

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

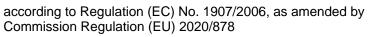
8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Propylene glycol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m3	IE OEL		
		OELV - 8 hrs (TWA) (total (va- pour and parti- cles))	150 ppm 470 mg/m3	IE OEL		
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal		
	Further inform	nation: DSEN, Skin				
		Wipe limit	100 µg/100 cm²	Internal		
Formaldehyde	50-00-0	TWA	0.3 ppm 0.37 mg/m3	2004/37/EC		
	Further inform	ation: Dermal sensit	tisation, Carcinogens or muta	agens		
		STEL	0.6 ppm 0.74 mg/m3	2004/37/EC		
	Further inform	Further information: Dermal sensitisation, Carcinogens or mutagens				
		OELV - 8 hrs (TWA)	0.3 ppm 0.37 mg/m3	IE OEL		
	Further inform		ents which following exposure	e mav cause		
	sensitisation of the respiratory tract and lead to asthma, rhinitis or extrir allergic alveolitis, Carc 1B - Substances presumed to have carcinogenic tential for humans					
		OELV - 15 min (STEL)	0.6 ppm 0.738 mg/m3	IE OEL		
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis, Carc 1B - Substances presumed to have carcinogenic potential for humans					
Methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC		
	Further inform through the st		entifies the possibility of signi	ficant uptake		
		OELV - 8 hrs (TWA)	200 ppm 260 mg/m3	IE OEL		
	Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body					

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

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	





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Propy	lene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
		Workers	Inhalation	Long-term systemic effects	168 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
		Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Forma	aldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m3
		Workers	Inhalation	Long-term local ef- fects	0.375 mg/m
		Workers	Inhalation	Acute local effects	0.75 mg/m3
		Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day
		Workers	Skin contact	Long-term local ef- fects	0.037 mg/cn
		Consumers	Inhalation	Long-term systemic effects	3.2 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	0.1 mg/m3
		Consumers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
		Consumers	Skin contact	Long-term local ef- fects	0.012 mg/cn
		Consumers	Ingestion	Long-term systemic effects	4.1 mg/kg bw/day
Metha	anol	Workers	Inhalation	Long-term systemic effects	130 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	130 mg/m3
		Workers	Inhalation	Long-term local ef- fects	130 mg/m3
		Workers	Inhalation	Acute local effects	130 mg/m3
		Workers	Skin contact	Long-term systemic effects	20 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	26 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	26 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	26 mg/m3
		Consumers	Inhalation	Acute local effects	26 mg/m3
		Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	4 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef-	4 mg/kg

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by



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11			fects	bw/day
Predi	icted No Effect Conc	entration (PNEC) acco	ording to Regulation (E	C) No. 1907/2006
Subst	tance name	Environmental	Compartment	Value
Propy	/lene glycol	Fresh water		260 mg/l
		Freshwater - ir	ntermittent	183 mg/l
		Marine water		26 mg/l
		Sewage treatm	nent plant	20000 mg/l
		Fresh water se	ediment	572 mg/kg dry weight (d.w.)
		Marine sedime	ent	57.2 mg/kg dry weight (d.w.)
		Soil		50 mg/kg dry weight (d.w.)
Form	aldehyde	Fresh water	Fresh water	
		Freshwater - ir	ntermittent	4.44 mg/l
		Marine water		0.44 mg/l
		Sewage treatn	nent plant	0.19 mg/l
		Fresh water se	ediment	2.3 mg/kg dry weight (d.w.)
		Marine sedime	ent	2.3 mg/kg dry weight (d.w.)
	Soil			0.2 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.

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 Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces.	



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Respi	ratory protection	contaminated clot If adequate local e sure assessment ommended guidel		degowning techniques to remove potentially thing. exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection. d conform to I.S. EN 14387
Filt	ter type			lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	6.4 - 7.4
Viscosity Viscosity, kinematic	:	230 - 320 mm2/s No data available
Solubility(ies) Water solubility	:	No data available

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	Partitio octanol	n coefficient: n- l/water	:	Not applicable	
	Vapour	pressure	:	No data available	9
	Relativ	e density	:	0.994 - 1.014 (20) °C)
	Density	/	:	No data available	9
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle size	:	Not applicable	
9.2	Other ir	nformation			
	Explosi	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available	9
	Molecu	lar weight	:	No data available	Ð

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity haza	ard.				
10.2 Chemical stability Stable under normal conditions.					
10.3 Possibility of hazardous reacti	ons				
Hazardous reactions :	Can react with strong oxidizing agents.				
10.4 Conditions to avoid Conditions to avoid :	None known.				
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

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



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			Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity estine Method: Calculation	mate: > 2,000 mg/kg on method
Acute	e inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h vapour
Acute	e dermal toxicity	:	Acute toxicity estine Method: Calculation	mate: > 2,000 mg/kg on method
Com	ponents:			
delta	methrin (ISO):			
Acute	e oral toxicity	:	LD50 (Rat): 66.7 i	mg/kg
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 19	9 - 34 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:	ĥ
Acute	e dermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
			LD50 (Rat): > 800) mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 2.5 m Application Route	
			LD50 (Mouse): 10 Application Route	
Form	aldehyde:			
Acute	e oral toxicity	:	Acute toxicity estin Method: Expert ju Remarks: Based o	0 0
Acute	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju	gas
Acute	e dermal toxicity	:	LD50 (Rabbit): 27	′0 mg/kg



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П			
Nony	Iphenol, ethoxylated	:	
Acute	e oral toxicity	: LD50 (Rat): 500) - 2,000 mg/kg
Metha	anol:		
Acute	e oral toxicity	: Acute toxicity ex Method: Expert	stimate (Humans): 300 mg/kg judgement
Acute	inhalation toxicity	: Acute toxicity e Exposure time: Test atmospher Method: Expert	4 h re: vapour
		Remarks: Base	d on national or regional regulation.
Acute	e dermal toxicity	: Acute toxicity en Method: Expert Remarks: Base	
Not c	corrosion/irritation lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
delta	methrin (ISO):		
Speci Resu		: Rabbit : No skin irritatior	ı
Form	aldehyde:		
Resu Rema	lt		3 minutes to 1 hour of exposure nal or regional regulation.
Nony	Iphenol, ethoxylated	:	
Speci Metho Resu	bd	: Rabbit : OECD Test Gui : No skin irritatior	
Metha	anol:		
Speci		: Rabbit	
Resu		: No skin irritation	1
	us eye damage/eye i lassified based on ava		
	oonents:		
	methrin (ISO):		
Speci Resu	es	: Rabbit : Moderate eye ir	ritation

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Form	aldehyde:		
Resul Rema		: Irreversible effe : Based on skin c	
Nony	Iphenol, ethoxylated	J:	
Speci Metho Resul	bd	: Rabbit : OECD Test Gui : Irreversible effe	
Metha	anol:		
Speci Resul		: Rabbit : No eye irritation	
Resp	iratory or skin sens	itisation	
	sensitisation cause an allergic skin	reaction.	
-	iratory sensitisation lassified based on av		
<u>Comp</u>	ponents:		
delta	methrin (ISO):		
Test Expos Speci Resul	sure routes les	: Maximisation Te : Dermal : Guinea pig : negative	est
Test T Expos Speci Resul	sure routes les	: Human repeat in : Dermal : Humans : positive	nsult patch test (HRIPT)
Form	aldehyde:		
Test Expos Speci Resul	sure routes les	: Human repeat in : Skin contact : Humans : positive	nsult patch test (HRIPT)
Asses	ssment	: Probability or ev mans	idence of high skin sensitisation rate in hu-
Nony	Iphenol, ethoxylated	J:	
Test	Type sure routes les It	: Maximisation Te : Skin contact : Guinea pig : negative	est rom similar materials

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Metha Test Expos Speci Resu	Type sure routes les	 Maximisation Test Skin contact Guinea pig negative
Not c	a cell mutagenicity lassified based on ava	lable information.
	oonents:	
	methrin (ISO): toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: DNA Repair Test system: Escherichia coli Result: negative
		Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Concentration: LOAEL: 20 mg/kg Result: positive
Geno	toxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative
		Test Type: dominant lethal test Species: Mouse Application Route: Oral Result: negative
		Test Type: sister chromatid exchange assay Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative
Form	aldehyde:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: positive
		Test Type: In vitro mammalian cell gene mutation test Result: positive
I		Test Type: Chromosome aberration test in vitro

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I			Result: positive	
Genc	otoxicity in vivo	:	Test Type: In vivo Species: Mouse Application Route Result: positive	o mammalian alkaline comet assay :: Inhalation
Germ sessi	n cell mutagenicity- As- ment	:	Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.	
Nony	/Iphenol, ethoxylated:			
	otoxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
Meth	anol:			
Genc	otoxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: in vitro Result: negative	o micronucleus test
Genc	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection
Carc	inogenicity			
May	cause cancer.			
<u>Com</u>	ponents:			
delta	methrin (ISO):			
Spec Appli Expo NOA	cation Route sure time	:	Mouse, male and oral (feed) 104 weeks 8 mg/kg body wei	
LOAE Resu	ΞL	:	4 mg/kg body wei positive Lymph nodes	
	cation Route sure time	:	Rat, male and fer oral (feed) 2 Years negative	nale

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



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	ation Route ure time L	 Dog, male and fe oral (feed) 2 Years 1 mg/kg body we negative 	
Forma Specie	ldehyde:	: Rat	
Applica	ation Route ure time	inhalation (gas) 28 Months positive	
Carcin ment	ogenicity - Assess-	: Sufficient eviden	ce of carcinogenicity in animal experiments
Metha	nol:		
	ation Route ure time	: Monkey : inhalation (vapou : 7 Months : negative	ır)
<u>Comp</u> deltarr	assified based on availa onents: nethrin (ISO): s on fertility		e-generation reproduction toxicity study
deltan		Species: Rat Application Rout Early Embryonic weight	e-generation reproduction toxicity study e: oral (feed) Development: NOAEL: 50 mg/kg body ffects on fertility, Embryo-foetal toxicity
			cant toxicity observed in testing
		Species: Rat Application Rout	
		weight	Development: LOAEL: 84 - 149 mg/kg body ffects on fertility, Embryo-foetal toxicity
		Test Type: Fertil Species: Rat, ma Application Rout Fertility: LOAEL: Symptoms: Effec Target Organs: 1	ale e: Oral 1 mg/kg body weight cts on fertility
Effects ment	on foetal develop-	: Test Type: Deve Species: Mouse Application Rout	

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		Result: Skeleta	I Toxicity: LOAEL: 1 mg/kg body weight al malformations ernal toxicity observed.
		Developmenta	
Repro sessr	oductive toxicity - As- nent		e of adverse effects on sexual function and on development, based on animal experiments.
•• Form	naldehyde:		
	ts on foetal develop-	Species: Rat	bryo-foetal development ute: inhalation (gas) /e
Meth	anol:		
Effec	ts on fertility	Species: Monk	ute: inhalation (vapour)
Effec ment	ts on foetal develop-	test Species: Monk	ute: inhalation (vapour)
II STOT	Γ - single exposure		
	lassified based on avail	able information.	
Com	ponents:		
	methrin (ISO):		
Asse	ssment	: May cause res	piratory irritation.
Form	naldehyde:		
	ssment	: May cause res	piratory irritation.
Meth	anol:		
Targe	et Organs ssment	: optic nerve, Co : Causes dama	entral nervous system ge to organs.

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STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

deltamethrin (ISO):

Exposure routes Target Organs Assessment	 Ingestion Central nervous system, Immune system Causes damage to organs through prolonged or repeated exposure.
Exposure routes Target Organs Assessment	 inhalation (dust/mist/fume) Central nervous system Causes damage to organs through prolonged or repeated exposure.
Repeated dose toxicity	
Components:	
deltamethrin (ISO): Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms	 Rat, male and female 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous system hyperexcitability
Species LOAEL Application Route Exposure time Symptoms	 Rat 3 mg/m3 inhalation (dust/mist/fume) 2 wk / 5 d/wk / 6 h/d Local irritation, respiratory tract irritation
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms	 Dog 0.1 mg/kg 1 mg/kg Oral 13 Weeks Nervous system Dilatation of the pupil, Vomiting, Tremors, Diarrhoea, Salivation
Species NOAEL LOAEL Application Route Exposure time Target Organs	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system

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



Deltamethrin (1%) Liquid Formulation

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Speci LOAE Applie Expo Targe Symp	EL cation Route sure time et Organs	Mouse 6 mg/kg Oral 12 Weeks Immune system immune system	

Aspiration toxicity

Not classified based on available information.

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, Nau- sea, 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:

deltamethrin (ISO):

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): 0.00048 mg/l Exposure time: 96 h
		LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00039 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Mysidopsis bahia (opossum shrimp)): 0.0037 µg/l Exposure time: 48 h
		EC50 (Daphnia magna (Water flea)): 0.0035 mg/l

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II			Exposure time: 48	3 h	
			LC50 (Gammarus Exposure time: 96	fasciatus (freshwater shrimp)): 0.0003 μg/l δ h	
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD Te		
M-Fa icity)	ctor (Acute aquatic tox-	:	1,000,000		
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0.000022 Exposure time: 36 Species: Pimepha		
			NOEC: 0.000017 Exposure time: 26 Species: Pimepha		
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 21		
M-Fa toxici	ctor (Chronic aquatic ty)	:	1,000,000		
Form	aldehyde:				
Toxic	ity to fish	:	LC50 (Morone sa: Exposure time: 96	xatilis (striped bass)): 6.7 mg/l 5 h	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): 5.8 mg/l 3 h	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te		
Toxic	ity to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	h	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC: 1.04 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)	
Nony	Iphenol, ethoxylated:				
	ity to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials	

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ersion .0	Revision Date: 28.09.2024		0S Number: 853344-00009	Date of last issue: 26.06.2024 Date of first issue: 15.09.2022
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	
	Toxicity to algae/aquatic plants		ErC50 (Selenastro mg/l Exposure time: 72 Method: OECD To	
			Exposure time: 72 Method: OECD Te	
M-Fao icity)	ctor (Acute aquatic tox-	:	1	
Toxic icity)	ity to fish (Chronic tox-	:		
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 28 Species: Mysidop	
M-Fac toxicit	ctor (Chronic aquatic y)	:	: 10	
Metha Toxic	anol: ity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 15,400 mg/l } h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 3847	
Toxic plants	ity to algae/aquatic	:	ErC50 (Raphidoco 22,000 mg/l Exposure time: 96 Method: OECD Te	
Toxic	ity to microorganisms	:	Exposure time: 3	leutralised product

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12.2 Pers	istence and degradabi	ility		
<u>Com</u>	ponents:			
delta	methrin (ISO):			
Stabi	ility in water	:	Hydrolysis: 0 %(3	30 d)
	naldehyde:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	99 %
Nony	vlphenol, ethoxylated:			
Biode	egradability	:	Result: Not readi Remarks: Based	ly biodegradable. on data from similar materials
Meth	anol:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	95 %
12.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
delta	methrin (ISO):			
Bioad	ccumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
	tion coefficient: n- nol/water	:	log Pow: 4.6	
	naldehyde:			
	tion coefficient: n- nol/water	:	log Pow: 0.35 Remarks: Calcula	ation
Nony	vlphenol, ethoxylated:			
	tion coefficient: n- nol/water	:	log Pow: 4.48	
Meth	anol:			
Bioad	ccumulation	:	•	us idus (Golden orfe) factor (BCF): < 10
	tion coefficient: n- nol/water	:	log Pow: -0.77	



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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

Product:

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 Endocrine disrupting properties

Product	

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.

Components:

Nonylphenol, ethoxylated:	
Assessment	: The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

12.7 Other adverse effects

No data 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.
Contaminated packaging	 Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

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



Version Revision Date 5.0 28.09.2024	e: SDS Number: 10853344-00009	Date of last issue: 26.06.2024 Date of first issue: 15.09.2022		
ADN	: UN 3082			
ADR	: UN 3082			
RID	: UN 3082			
IMDG	: UN 3082			
ΙΑΤΑ	: UN 3082			
14.2 UN proper shipping	name			
ADN	: ENVIRONMI N.O.S. (deltamethrir	ENTALLY HAZARDOUS SUBSTANCE, LIQUID, n (ISO))		
ADR	: ENVIRONMI N.O.S. (deltamethrir	ENTALLY HAZARDOUS SUBSTANCE, LIQUID, n (ISO))		
RID	: ENVIRONMI N.O.S. (deltamethrir	ENTALLY HAZARDOUS SUBSTANCE, LIQUID, n (ISO))		
IMDG	: ENVIRONMI N.O.S. (deltamethrir	ENTALLY HAZARDOUS SUBSTANCE, LIQUID, n (ISO))		
ΙΑΤΑ	: Environment (deltamethrir	ally hazardous substance, liquid, n.o.s. n (ISO))		
14.3 Transport hazard class(es)				
	Class	Subsidiary risks		
ADN	: 9			
ADR	: 9			
RID	: 9			
IMDG	: 9			
ΙΑΤΑ	: 9			
14.4 Packing group				
ADN Packing group Classification Code Hazard Identification N Labels	: III : M6 Number : 90 : 9			
ADR Packing group Classification Code Hazard Identification N Labels Tunnel restriction code RID Packing group	: 9			

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



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I		cation Code Identification Number	:	M6 90 9	
l	IMDG Packing Labels EmS Co		:	III 9 F-A, S-F	
l	aircraft)	g instruction (cargo	:	964	
I	Packing Packing Labels	g instruction (LQ) g group	:	Y964 III Miscellaneous	
	Packing ger airc	g instruction (LQ)	:	964 Y964 III Miscellaneous	
14.5	Enviro	nmental hazards			
I	ADN Environ ADR	mentally hazardous	:	yes	
_		mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) mentally hazardous	:	yes	
	IATA ((Environ	Cargo) mentally hazardous	:	yes	
14.6	Specia	I precautions for use	r		

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

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



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the m _mixtu	CH - Restrictions on the narket and use of certain res and articles (Annex	n dangerous substances XVII)	S,	:	Conditions of restri lowing entries shou Number on list 3	
the m	CH - Restrictions on the narket and use of certair res and articles (Annex	n dangerous substances			Number on list 28:	Formaldehyde
					Number on list 46b ethoxylated	: Nonylphenol,
					Number on list 46a ethoxylated	.: Nonylphenol,
					Number on list 72:	Formaldehyde
the m	CH - Restrictions on the narket and use of certair res and articles (Annex	n dangerous substances			Number on list 75: use this product as contact your vendo	tattoo ink, please
the m mixtu REA0 the m	CH - Restrictions on the narket and use of certair res and articles (Annex CH - Restrictions on the narket and use of certair res and articles (Annex	n dangerous substances XVII) manufacture, placing o n dangerous substances	s, on		Number on list 77:	Formaldehyde
					Substance(s) or minimere according to the regulation, in use/purpose or the restriction. Please tions in correspond determine whether cable to the placing not.	heir appearance respective of their conditions of the refer to the condi- ling Regulation to an entry is appli-
	CH - Candidate List of S		n :	:	Nonylphenol, etho	kylated
Regu	ern for Authorisation (A lation (EC) on substanc		ne :		Not applicable	
	lation (EU) 2019/1021 c	on persistent organic po	ollu- :		Not applicable	
Regu ment	(recast) lation (EU) No 649/2012 and the Council concer ngerous chemicals			:	Nonylphenol, etho	kylated
REAG	CH - List of substances ex XIV)	subject to authorisation	:		Nonylphenol, etho	kylated
Seve	so III: Directive 2012/18 r-accident hazards invol			nt		
E1		ENVIRONMENT	۹L		Quantity 1 100 t	Quantity 2 200 t

Other regulations:

HAZARDS



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Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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	
H221 : H225 : H301 : H302 : H311 : H314 : H317 : H318 : H319 : H330 : H331 : H330 : H331 : H330 : H331 : H330 : H331 : H335 : H341 : H350 : H361fd : H370 : H372 :	Flammable gas. Highly flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Toxic if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure if inhaled.
	Causes damage to organs through prolonged or repeated exposure if swallowed. Very toxic to aquatic life.
H410 : Full text of other abbreviations	Very toxic to aquatic life with long lasting effects.
Acute Tox. : Aquatic Acute :	Acute toxicity Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Carc. : Eye Dam. :	Carcinogenicity Serious eye damage

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Eye li	rit		Evo irritation					
Flam.		:	Flammable gases	Eye irritation				
Flam.		:	Flammable liquids					
Muta.		:	Germ cell mutagenicity					
Repr.		÷	Reproductive toxicity					
Skin (÷	Skin corrosion					
Skin S		:	Skin sensitisation					
STOT	RE	:	Specific target organ toxicity - repeated exposure					
STOT SE		:	Specific target organ toxicity - single exposure					
2004/37/EC		:	Europe. Directive 2004/37/EC on the protection of workers					
			from the risks rela	ated to exposure to carcinogens or mutagens				
			at work					
2006/15/EC		:	Europe. Indicative occupational exposure limit values					
IE OEL		:	Ireland. List of Chemical Agents and Carcinogens with Occu-					
			pational Exposure Limit Values - Code of Practice, Schedule 1					
			and 2	una linait				
2004/37/EC / STEL		÷	Short term exposure limit					
2004/37/EC / TWA		:	Long term exposure limit					
2006/15/EC / TWA		:						
	EL / OELV - 8 hrs (TWA)	:						
IE OEL / OELV - 15 min		÷		osure limit value (15-minute reference peri-				
(STE	_)		od)					

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

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- Toxic Substances Control Act (United States); UN - United Nations; 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/
Oneet	cy, mp.//echa.eu/opa.eu/

Classification of the m	nixture:	Classification procedure:
Skin Sens. 1	H317	Calculation method
Carc. 1B	H350	Calculation method
STOT RE 2	H373	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.

IE / EN