



Version 1.6	Revision Date: 03.11.2023	SDS Number 10215154-00		Date of last issue: 30.09.2023 Date of first issue: 10.11.2021
SECTION	N 1: Identification of	the substanc	ce/mixt	ure and of the company/undertaking
1.1 Produ	ıct identifier			
Trade	e name	: Deltamet	hrin (1.0	5%) Formulation
1 2 Relev	ant identified uses of t	the substance	or mixt	ure and uses advised against
Use	of the Sub- ce/Mixture	: Veterinar		-
Reco on us	mmended restrictions	: Not applie	cable	
1.3 Detail	s of the supplier of the	e safety data s	heet	
Comj	pany	: MSD 20 Sparta 1619 Spa		outh Africa
Telep	bhone	: +2711923	39300	
	il address of person onsible for the SDS	: EHSDAT	ASTEW	ARD@msd.com
	<b>gency telephone numk</b> 08-423-6000	ber		
SECTION	N 2: Hazards identifi	cation		
2.1 Class	ification of the substa	nce or mixture	•	
Class	sification (REGULATIO	ON (EC) No 127	72/2008)	
Spec expo Short	sensitisation, Category ific target organ toxicity sure, Category 2 t-term (acute) aquatic ha	- repeated	H373: longed	May cause an allergic skin reaction. May cause damage to organs through pro- or repeated exposure. Very toxic to aquatic life.
Long	gory 1 Long-term (chronic) aquatic hazard, Cat- egory 1			Very toxic to aquatic life with long lasting .
2.2 Label	elements			
Labe	lling (REGULATION (E	EC) No 1272/20	(80	
Haza	rd pictograms			
Signa	al word	: Warning		

Signal word Hazard statements

: H317 May cause an allergic skin reaction.



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		repeated exposu	se damage to organs through prolonged or are. Ic to aquatic life with long lasting effects.
Precau	utionary statements		lease to the environment. otective gloves.
		P333 + P313 I advice/ attention	Take off contaminated clothing and wash it

Hazardous components which must be listed on the label: deltamethrin (ISO)

#### 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.

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).

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

#### **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; H331 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361fd STOT SE 3; H335 STOT RE 1; H372 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1;	>= 1 - < 2,5



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			H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000.000 M-Factor (Chronic aquatic toxicity): 1.000.000	

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

4.1 Description of mist ald meas	buie	5
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	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
4.2 Most important symptoms a	nd e	effects, both acute and delayed
Risks	:	May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.
		Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.



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	cation of any immediate atment	meo :		d special treatment needed tically and supportively.
SECTIO	ON 5: Firefighting mea	sur	es	
5.1 Exti	nguishing media			
Sui	table extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical	
Uns me	suitable extinguishing dia	:	None known.	
5.2 Spe	cial hazards arising from	the	substance or m	ixture
	ecific hazards during fire- ting	:		m explosive mixtures with air. bustion products may be a hazard to health.
Haz uct:	zardous combustion prod- s	:	Carbon oxides Nitrogen oxides Bromine compou	
5.3 Adv	ice for firefighters			
	ecial protective equipment firefighters	:		re, wear self-contained breathing apparatus. Ditective equipment.
Spe ods	ecific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to de

### 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.

### SAFETY DATA SHEET



## Deltamethrin (1.05%) Formulation

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	Is and material for co		
Metho	ds for cleaning up	Avoid dispersal o with compressed Dust deposits she es, as these may leased into the at For large spills, p ment to keep mai be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regul Sections 13 and	t absorbent material. f dust in the air (i.e., clearing dust surfaces air). ould not be allowed to accumulate on surfac- form an explosive mixture if they are re- mosphere in sufficient concentration. rovide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.

#### 6.4 Reference to other sections

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

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding
Local/Total ventilation	:	and bonding, or inert atmospheres. 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
		Minimize dust generation and accumulation. Keep container closed when not in use.
		Keep away from heat and sources of ignition. 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.
Hygiene measures	:	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,



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		industrial hy	degowning and decontamination procedures, giene monitoring, medical surveillance and the nistrative controls.		
7.2 Cond	itions for safe storage,	including any i	ncompatibilities		
	Requirements for storage areas and containers		Keep in properly labelled containers. Store in accordance with the particular national regulations.		
Advi	ce on common storage	Strong oxid	e with the following product types: izing agents e substances and mixtures roxides		
•	i <b>fic end use(s)</b> cific use(s)	: No data ava	ailable		

### 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 inform	nation: DSEN, Skin		
		Wipe limit	100 µg/100 cm²	Internal

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Glycerides, mixed decanoyl and oc- tanoyl	Workers	Inhalation	Long-term systemic effects	177,79 mg/m3
	Workers	Skin contact	Long-term systemic effects	25,21 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	43,84 mg/m3
	Consumers	Skin contact	Long-term systemic effects	12,61 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,61 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Glycerides, mixed decanoyl and	Oral (Secondary Poisoning)	0,03 mg/kg food
octanoyl		



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#### 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 Hand 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.
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, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates 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 Colorless to pale yellow No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	> 150 °C
range Flash point	:	> 93 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.

### SAFETY DATA SHEET



## **Deltamethrin (1.05%) Formulation**

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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	)
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	0,945 - 0,955 (20	°C)
	Density	/	:	No data available	)
	Partitio octanol	er solubility n coefficient: n-	:	No data available Not applicable No data available	
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
9.2 (		nformation ability (liquids)	:	Ignitable (see fla:	sh point)
		lar weight		No data available	
	Particle	-	:	Not applicable	

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

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapours may form explosive mixture with air.	
			May form explosive dust-air mixture during processing, han-
			dling or other means.
			Can react with strong oxidizing agents.

#### 10.4 Conditions to avoid



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Cond	itions to avoid	:	Heat, flames and Avoid dust forma	
	mpatible materials rials to avoid	:	Oxidizing agents	
	rdous decomposition pazardous decomposition			
SECTION	N 11: Toxicological in	for	mation	
11.1 Infor	mation on toxicologica	l eff	ects	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact 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	inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h dust/mist
Com	ponents:			
delta	methrin (ISO):			
Acute	e oral toxicity	:	LD50 (Rat): 66,7 i	mg/kg
			LD50 (Rat): 9 - 13	9 mg/kg
			LD50 (Mouse): 19	) - 34 mg/kg
Acute	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	





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_	corrosion/irritation			
Not cl	assified based on ava	ailable	information.	
<u>Comp</u>	ponents:			
deltar	methrin (ISO):			
Speci Resul		:	Rabbit No skin irritation	
	us eye damage/eye i assified based on ava			
<u>Comp</u>	oonents:			
deltar	methrin (ISO):			
Speci Resul		:	Rabbit Moderate eye irrit	tation
Respi	iratory or skin sensi	tisatio	on	
_	sensitisation ause an allergic skin	reactio	on.	
-	iratory sensitisation assified based on ava		information.	
	ponents:			
deltar	methrin (ISO):			
Test T Expos Speci Resul	sure routes es	::	Maximisation Tes Dermal Guinea pig negative	t
Test T Expos Speci Resul	sure routes es	:	Human repeat ins Dermal Humans positive	sult patch test (HRIPT)
	cell mutagenicity assified based on ava	ailabla	information	
	onents:		intornation.	
deltar	methrin (ISO):			
Geno	toxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA F Test system: Esc Result: negative	
				nosomal aberration nese hamster ovary cells
			10 / 20	



ersion 6	Revision Date: 03.11.2023	SDS Number: 10215154-00007	Date of last issue: 30.09.2023 Date of first issue: 10.11.2021
		Test system: Ch	ro mammalian cell gene mutation test inese hamster lung cells .OAEL: 20 mg/kg
Geno	toxicity in vivo	: Test Type: Micro Species: Mouse Application Rout Result: negative	te: Oral
		Test Type: domi Species: Mouse Application Rout Result: negative	te: Oral
		Test Type: siste Species: Mouse Cell type: Bone Application Rout Result: negative	marrow te: Oral
Not cl <u>Com</u> r	nogenicity assified based on ava ponents:	ailable information.	
Speci Applic Expos NOAE LOAE Resul	cation Route sure time EL EL	<ul> <li>Mouse, male an</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body we</li> <li>4 mg/kg body we</li> <li>positive</li> <li>Lymph nodes</li> </ul>	eight
	cation Route sure time	: Rat, male and fe : oral (feed) : 2 Years : negative	emale
	cation Route sure time EL	<ul> <li>Dog, male and fermions</li> <li>oral (feed)</li> <li>2 Years</li> <li>1 mg/kg body weight</li> <li>negative</li> </ul>	
	oductive toxicity assified based on ava	ailable information	
	oonents:		

deltamethrin (ISO):

Effects on fertility

: Test Type: Three-generation reproduction toxicity study



rsion	Revision Date: 03.11.2023	SDS Number: 10215154-0000	Date of last issue: 30.09.2023 Date of first issue: 10.11.2021
		Early Embry weight Symptoms:	at Route: oral (feed) vonic Development: NOAEL: 50 mg/kg body No effects on fertility, Embryo-foetal toxicity ignificant toxicity observed in testing
		Species: Ra Application Early Embry weight	
			at, male Route: Oral AEL: 1 mg/kg body weight Effects on fertility
Effect ment	s on foetal develop-	Species: Mo Application Developme Result: Ske	Development buse Route: oral (gavage) ntal Toxicity: LOAEL: 1 mg/kg body weight letal malformations laternal toxicity observed.
		Species: Ra Developme	Development at, female ntal Toxicity: NOAEL: 10 mg/kg body weight No effects on foetal development
		Species: Ra Application Developme	Development abbit, female Route: oral (gavage) ntal Toxicity: NOAEL: 16 mg/kg body weight No effects on foetal development
Repro sessn	oductive toxicity - As- nent		nce of adverse effects on sexual function and /or on development, based on animal experimer

Not classified based on available information.

#### **Components:**

#### deltamethrin (ISO):

Assessment : May cause respiratory irritation.

#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.



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Com	oonents:	
Expo Targe	<b>methrin (ISO):</b> sure routes et Organs ssment	<ul> <li>Ingestion</li> <li>Central nervous system, Immune system</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Targe	sure routes et Organs ssment	<ul> <li>inhalation (dust/mist/fume)</li> <li>Central nervous system</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Repe	ated dose toxicity	
Com	oonents:	
Speci NOAI LOAE Applie Expos	EL EL cation Route sure time et Organs	<ul> <li>Rat, male and female</li> <li>1 mg/kg</li> <li>2,5 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Nervous system</li> <li>hyperexcitability</li> </ul>
	EL cation Route sure time	<ul> <li>Rat</li> <li>3 mg/m3</li> <li>inhalation (dust/mist/fume)</li> <li>2 wk / 5 d/wk / 6 h/d</li> <li>Local irritation, respiratory tract irritation</li> </ul>
Expo	EL EL cation Route sure time et Organs	<ul> <li>Dog</li> <li>0,1 mg/kg</li> <li>1 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Nervous system</li> <li>Dilatation of the pupil, Vomiting, Tremors, Diarrhoea, Salivation</li> </ul>
Expo	ΞL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system
Expo	EL cation Route sure time et Organs	<ul> <li>Mouse</li> <li>6 mg/kg</li> <li>Oral</li> <li>12 Weeks</li> <li>Immune system</li> <li>immune system effects</li> </ul>





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Aspii	ration toxicity		
Not c	lassified based on ava	ailable information.	
Expe	rience with human e	xposure	
Com	ponents:		
delta	methrin (ISO):		
Inhala	ation	Headache, N	espiratory tract irritation, Dizziness, Sweating, lausea, Vomiting, anorexia, Fatigue, tingling, slurred vision, muscle twitching
Skin	contact	: Symptoms: S sea, Vomiting	Skin irritation, Erythema, pruritis, Headache, Nau- g, Dizziness, tingling, Sweating, muscle twitching, n, Fatigue, anorexia, Allergic reactions
Inges	tion		nuscle 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 Exposure time: 48 h
		LC50 (Gammarus fasciatus (freshwater shrimp)): 0,0003 μg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9,1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
M-Factor (Acute aquatic tox- icity)	:	1.000.000
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0,000022 mg/l Exposure time: 36 d Species: Pimephales promelas (fathead minnow) NOEC: 0,000017 mg/l Exposure time: 260 d
		Species: Pimephales promelas (fathead minnow)



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	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC: 0,0041 µg Exposure time: 2 Species: Daphnia	
M-Fa toxici	ctor (Chronic aquatic ty)	:	1.000.000	
12.2 Persi	istence and degradabil	ity		
Com	ponents:			
	methrin (ISO): lity in water	:	Hydrolysis: 0 %(3	0 d)
12.3 Bioa	ccumulative potential			
Com	ponents:			
delta	methrin (ISO):			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.800
	ion coefficient: n- ol/water	:	log Pow: 4,6	
12.4 Mobility in soil				
Com	ponents:			
	methrin (ISO): bution among environ-	:	log Koc: 7,2	
	al compartments			
12.5 Resu	Ilts of PBT and vPvB as	sse	ssment	
<u>Prod</u> Asse	<u>uct:</u> ssment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Othe	r adverse effects			
<u>Prod</u> Endo tial	uct: crine disrupting poten-	:	ered to have ender REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



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	Produc Contar	ct ninated packaging	<ul> <li>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.</li> <li>Empty containers should be taken to an approved waste har dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.</li> </ul>		European Waste Catalogue, Waste Codes becific, but application specific. uld be assigned by the user, preferably in the waste disposal authorities. waste into sewer. should be taken to an approved waste han- cling or disposal.
SEC	TION	14: Transport infor	mat	tion	
14.1	UN nu	mber			
	ADN		:	UN 3082	
	ADR		:	UN 3082	
	RID		:	UN 3082	
	IMDG		:	UN 3082	
	ΙΑΤΑ		:	UN 3082	
14.2	UN pro	oper shipping name			
	ADN		:	ENVIRONMENTA N.O.S. (deltamethrin (ISC	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	ADR		:	ENVIRONMENT N.O.S. (deltamethrin (ISC	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	RID		:	ENVIRONMENTA N.O.S. (deltamethrin (ISC	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	IMDG		:	ENVIRONMENTA N.O.S. (deltamethrin (ISC	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	ΙΑΤΑ		:	Environmentally h (deltamethrin (ISC	nazardous substance, liquid, n.o.s. D))
14.3	Trans	port hazard class(es)			
				Class	Subsidiary risks
	ADN		:	9	
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	Packir	ng group			
	<b>ADN</b> Packin	g group	:	III	



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	fication Code d Identification Number	:	M6 90 9	
Classi Hazaro Labels	ng group fication Code d Identification Number s I restriction code	:	III M6 90 9 (-)	
Classi	ng group fication Code d Identification Number	: :	III M6 90 9	
<b>IMDG</b> Packir Labels EmS (		:	III 9 F-A, S-F	
Packir aircraf Packir	ng instruction (LQ) ng group	:	964 Y964 III Miscellaneous	
Packir ger air Packir	ng instruction (LQ) ng group	:	964 Y964 III Miscellaneous	
14.5 Enviro	onmental hazards			
<b>ADN</b> Enviro	nmentally hazardous	:	yes	
<b>ADR</b> Enviro	nmentally hazardous	:	yes	
<b>RID</b> Enviro	nmentally hazardous	:	yes	
<b>IMDG</b> Marine	epollutant	:	yes	
ΙΑΤΑ (	, ( <b>Passenger)</b> nmentally hazardous	:	yes	
ΙΑΤΑ (	(Cargo) nmentally hazardous	:	yes	
14.6 Speci	al precautions for use	r		

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

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

The components of this pr	duct are reported in the following inventorio	es:
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
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11001		
H301	:	Toxic if swallowed.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H335	:	May cause respiratory irritation.
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure if inhaled.
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Aquatia Aquita		Short term (oouto) equatic bezord

Acute Tox.	
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

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; Regula-



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tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - 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 : compile the Safety Data Sheet	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Classification of th	ne mixture:	Classification procedure:
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.



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