

Version	Revision Date:	SDS Number:	Date of last issue: 05.12.2023
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### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade name	:	Deltamethrin (1.47%) Formulation
Product code	:	Butox pour-on aqueous
Other means of identification	:	Blaze (A008214) COOPERS EASY-DOSE POUR-ON CATTLE LICE AND FLY TREATMENT (54096)
1.2 Relevant identified uses of the	he s	substance 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 (agut) agustic bagard. Cate	<ul> <li>H317: May cause an allergic skin reaction.</li> <li>H350: May cause cancer.</li> <li>H373: May cause damage to organs through prolonged or repeated exposure.</li> <li>H400: Very toxic to aquatic life.</li> </ul>
Short-term (acute) aquatic hazard, Cate- gory 1 Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting
egory 1	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 :		!
ord	: Danger	<b>v v</b>
tatements	H350 May ca H373 May ca repeated expos	use an allergic skin reaction. use cancer. use damage to organs through prolonged or sure. xic to aquatic life with long lasting effects.
onary statements	P273 Avoid r P280 Wear p	special instructions before use. elease to the environment. rotective gloves/ protective clothing/ eye protec- ction.
		IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical n. spillage.
	ictograms ord tatements	ictograms : ord : Danger tatements : H317 May ca H350 May ca H373 May ca H373 May ca repeated expos H410 Very to onary statements : Prevention: P201 Obtain P273 Avoid ri P280 Wear p tion/ face protein Response: P308 + P313 attention. P333 + P313 advice/ attentio

Hazardous components which must be listed on the label: deltamethrin (ISO) Formaldehyde 1,2-Benzisothiazol-3(2H)-one 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; H331 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361fd STOT SE 3; H335 STOT RE 1; H372 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 1 - < 2,5
		aquatic toxicity): 1.000.000 M-Factor (Chronic aquatic toxicity): 1.000.000	
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
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	>= 0,2 - < 1

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1,2-В	enzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00	-6 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 specific concentra- tion limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Stor SE 3; H335 >= 5 % Skin Sens. 1A; H317 >= 0,2 % Acute toxicity esti- mate Acute oral toxicity: 100 mg/kg Acute inhalation toxicity (gas): 100 ppm Acute dermal toxici- ty: 270 mg/kg Acute Tox. 4; H302 Acute Tox. 4; H302 Acute Tox. 2; H330 -6 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Specific concentra- tion limit Skin Sens. 1A; H317	>= 0,0025 - < 0,025

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			>= 0,036 % Acute toxicity esti- mate Acute oral toxicity: 454 mg/kg Acute inhalation
			toxicity (dust/mist): 0,21 mg/l

For explanation of abbreviations see section 16.

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

### 4.1 Description of first aid measures

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical ac vice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medic advice.</li> </ul>	
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	<ul> <li>In case of contact, immediately flush skin with soap and ple of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	nty
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.	
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> </ul>	
4.2 Most important symptoms an	l effects, both acute and delayed	
Risks	<ul> <li>May cause an allergic skin reaction.</li> <li>May cause cancer.</li> <li>May cause damage to organs through prolonged or repeate exposure.</li> </ul>	эd
	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamat	te
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		or o	rganophosph	ate poisoning.	
<b>4.3 Indica</b> Treat	-			d special treatment needed ically and supportively.	
SECTION	N 5: Firefighting meas	sures			
-	<b>guishing media</b> ble extinguishing media	Alco Carl	er spray hol-resistant oon dioxide ( chemical		
Unsuitable extinguishing : media		: Non	None known.		
5.2 Specia	al hazards arising from	the sub	stance or m	ixture	
Spec fightir	ific hazards during fire- ng	: Exp	osure to com	bustion products may be a hazard to health.	
Haza ucts	rdous combustion prod-	Nitro	oon oxides ogen oxides mine compou		
5.3 Advic	e for firefighters				
	ial protective equipment efighters			e, wear self-contained breathing apparatus. tective equipment.	
Specific extinguishing meth- : ods		cum Use Ren so.	stances and water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. Iged containers from fire area if it is safe to do	

### 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).
<b>6.2 Environmental precautions</b> 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.

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



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		Local authorities cannot be contai	should be advised if significant spillages ned.
6.3 Method	Is and material for co	ntainment and clean	ing up
Metho	For men be Cle ben Loc pos em min Sec		rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.

### 6.4 Reference to other sections

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

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

### 7.1 Precautions for safe handling

	9	
Technical measures		Engineering measures under EXPOSURE NTROLS/PERSONAL PROTECTION section.
Local/Total ventilation		fficient ventilation is unavailable, use with local exhaust ilation.
Advice on safe handling	: Do r Do r Do r Avo Was Han prac sess	not get on skin or clothing. not breathe mist or vapours. not swallow. id contact with eyes. sh skin thoroughly after handling. dle in accordance with good industrial hygiene and safety etice, based on the results of the workplace exposure as- sment p container tightly closed.
	Do r Tak	not eat, drink or smoke when using this product. e care to prevent spills, waste and minimize release to the ronment.
Hygiene measures	flush plac worl Was The engi appi indu	posure to chemical is likely during typical use, provide eye ning systems and safety showers close to the working e. When using do not eat, drink or smoke. Contaminated clothing should not be allowed out of the workplace. sh contaminated clothing before re-use. effective operation of a facility should include review of neering controls, proper personal protective equipment, ropriate degowning and decontamination procedures, strial hygiene monitoring, medical surveillance and the of administrative controls.



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7.2 Condi	tions for safe storage	, includ	ing any incor	npatibilities
	irements for storage and containers	tię		y labelled containers. Store locked up. Keep store in accordance with the particular national
Advic	e on common storage	ge : Do not store with the follow Strong oxidizing agents Self-reactive substances ar Organic peroxides Explosives Gases		agents bstances and mixtures
-	f <b>ic end use(s)</b> fic use(s)	: N	o data availab	le

### **SECTION 8: Exposure controls/personal protection**

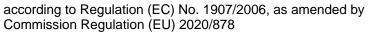
#### 8.1 Control parameters

### **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	ation: DSEN, Skin					
		Wipe limit	100 µg/100 cm²	Internal			
Formaldehyde	50-00-0	TWA	0,3 ppm	FOR-2011-			
			0,37 mg/m3	12-06-1358			
	Further inform	ation: Substances c	onsidered to be carcinogenic	, Substances			
			n coming into touch with the				
	ways or evoki	ways or evoking allergies after coming into contact with the skin					
		STEL	0,6 ppm	FOR-2011-			
			0,74 mg/m3	12-06-1358			
	Further information: Substances considered to be carcinogenic, Substances						
	considered to evoke allergies when coming into touch with the eyes or air-						
	ways or evoki	ng allergies after cor	ning into contact with the ski	<u>n</u>			
		TWA	0,3 ppm	2004/37/EC			
			0,37 mg/m3				
	Further inform	ation: Dermal sensit	isation, Carcinogens or muta	igens			
		STEL	0,6 ppm	2004/37/EC			
			0,74 mg/m3				
	Further information: Dermal sensitisation, Carcinogens or mutagens						

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Formaldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,375 mg/m3





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Ш		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/cm2
		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/cm2
		Consumers	Ingestion	Long-term systemic effects	4,1 mg/kg bw/day
1,2-B 3(2H)	enzisothiazol- -one	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
		Workers	Skin contact	Long-term systemic effects	0,966 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
Ī		Consumers	Skin contact	Long-term systemic effects	0,345 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Formaldehyde	Fresh water	0,44 mg/l
	Freshwater - intermittent	4,44 mg/l
	Marine water	0,44 mg/l
	Sewage treatment plant	0,19 mg/l
	Fresh water sediment	2,3 mg/kg dry weight (d.w.)
	Marine sediment	2,3 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
1,2-Benzisothiazol-3(2H)-one	Fresh water	11 μg/l
	Intermittent use/release	0,403 µg/l
	Marine water	1,1 µg/l
	Intermittent use/release	0,0403 µg/l
	Sewage treatment plant	1,03 mg/l
	Fresh water sediment	0,0499 mg/kg dry weight (d.w.)
	Marine sediment	0,00499 mg/kg dry weight (d.w.)
	Soil	3 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).

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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

i cisoliai protective equipi	nont	
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. Equipment should conform to NS EN 14387 Combined particulates and inorganic gas/vapour type (B-P)

#### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid, 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

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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	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Relative vapour density	:	No data available
Particle characteristics Particle size	:	Not applicable
9.2 Other information		
Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Evaporation rate	:	No data available
Molecular weight	:	No data available

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

#### 10.1 Reactivity

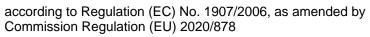
Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.



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10.3 P	ossibility of hazardous rea	acti	ons	
Ha	azardous reactions	:	Can react with s	trong oxidizing agents.
10 4 C	onditions to avoid			
	onditions to avoid	:	None known.	
	compatible materials aterials to avoid		Oxidizing agents	
171		•	Oxidizing agents	
	azardous decomposition	-		
No	o hazardous decomposition	pro	ducts are known.	
SECT	ION 11: Toxicological ir	nfor	mation	
11 1 In	formation on hazard class	505	as defined in Per	ulation (EC) No 1272/2008
	formation on likely routes of		Inhalation	
ex	posure		Skin contact Ingestion	
			Eye contact	
	cute toxicity			
	ot classified based on availa	able	information.	
	r <u>oduct:</u> cute oral toxicity		A outo tovioity oot	imate: > 2.000 mg/kg
		•	Method: Calculat	0 0
Ad	cute inhalation toxicity	:	Acute toxicity est	imate: > 20 mg/l
	,		Exposure time: 4	h
			Test atmosphere Method: Calculat	
۵d	cute dermal toxicity		Acute toxicity est	imate: > 2.000 mg/kg
7.0		•	Method: Calculat	
0				
	omponents:			
	eltamethrin (ISO): cute oral toxicity		LD50 (Rat): 66,7	ma/ka
ľ.		•		
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 19	9 - 34 mg/kg
Ad	cute inhalation toxicity	:	LC50 (Rat): 0,8 n	
			Exposure time: 2 Test atmosphere	
	ute dermel terrisity			
Ad	cute dermal toxicity	:	LD50 (Rabbit): 2.	uuu mg/kg





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			LD50 (Rat): > 800	mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 2,5 m Application Route	
			LD50 (Mouse): 10 Application Route	
Nony	Iphenol, ethoxylated:			
Acute	e oral toxicity	:	LD50 (Rat): 500 -	2.000 mg/kg
Form	aldehyde:			
	e oral toxicity	:	Acute toxicity estin Method: Expert ju	
Acute	e inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju	gas
Acute	e dermal toxicity	:	LD50 (Rabbit): 27	0 mg/kg
1,2-B	enzisothiazol-3(2H)-on	e:		
Acute	e oral toxicity	:	LD50 (Rat): 454 m Method: OECD Te	
Acute	e inhalation toxicity	:	LC50 (Rat, male): Exposure time: 4	
			Test atmosphere: Method: OECD Te	
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity	
-	corrosion/irritation lassified based on availa	ble	information.	
Com	ponents:			
	methrin (ISO):			
Spec Resu	ies	:	Rabbit No skin irritation	
Non	/lphenol, ethoxylated:			
			Rabbit	

Species Method Result	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

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For	maldehyde:	
Spe Met Res	cies hod	<ul> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>Corrosive after 3 minutes to 1 hour of exposure</li> </ul>
1,2- Res	Benzisothiazol-3(2H)- ult	one: : Skin irritation
	<b>ous eye damage/eye</b> i classified based on ava	
<u>Con</u>	nponents:	
delt	amethrin (ISO):	
Spe Res	cies ult	: Rabbit : Moderate eye irritation
Non	ylphenol, ethoxylated	<u>.</u>
Spe		: Rabbit
Met Res		<ul><li>: OECD Test Guideline 405</li><li>: Irreversible effects on the eye</li></ul>
For	maldehyde:	
Spe Res	cies	: Rabbit : Irreversible effects on the eye
1 2-	Benzisothiazol-3(2H)-	one.
Spe	cies	: Rabbit : Irreversible effects on the eye
Res	piratory or skin sensi	tisation
-	n sensitisation r cause an allergic skin	reaction.
	piratory sensitisation classified based on ava	ilable information.
<u>Con</u>	nponents:	
delt	amethrin (ISO):	
Test	t Type	: Maximisation Test
_	osure routes cies	: Dermal : Guinea pig
Res		: negative
Test	t Type	: Human repeat insult patch test (HRIPT)
Exp	osure routes	: Dermal
Spe Res		: Humans : positive
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Nonv	/lphenol, ethoxylated	:	
Test	Type sure routes ies It	: Maximisation Te : Skin contact : Guinea pig : negative	est rom similar materials
	aldehyde:		
Test	Type sure routes	: Local lymph noc : Skin contact	le assay (LLNA)
Spec		: Mouse	
Meth		: OECD Test Guid	deline 429
Resu		: positive	
Asse	ssment	: Probability or ev mans	idence of high skin sensitisation rate in hu
1,2-B	enzisothiazol-3(2H)-	one:	
Test		: Maximisation Te	est
	sure routes	: Skin contact	
Spec Meth		: Guinea pig : OECD Test Guid	deline 106
Resu		: positive	
		•	
Asse	ssment	: Probability or ev mans	idence of high skin sensitisation rate in hu

Not classified based on available information.

**Components:** 

### deltamethrin (ISO):

Genotoxicity 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

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Genot	oxicity in vivo	<ul> <li>Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative</li> <li>Test Type: dominant lethal test Species: Mouse Application Route: Oral Result: negative</li> <li>Test Type: sister chromatid exchange assay Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative</li> </ul>
Nonvi	phenol, ethoxylated:	
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
Forma	aldehyde:	
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: positive
		Test Type: Chromosome aberration test in vitro Result: positive
Genot	oxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Inhalation Result: positive
Germ sessm	cell mutagenicity- As- ent	: Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.
1.2-Be	enzisothiazol-3(2H)-on	e:
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive
Genot	oxicity in vivo	: Test Type: Unscheduled DNA synthesis (UDS) test with

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		mammalian live Species: Rat Application Rou Method: OECD Result: negative	ite: Ingestion Test Guideline 486
	inogenicity cause cancer.		
<u>Com</u>	ponents:		
delta	methrin (ISO):		
Expo NOA LOAE Resu	cation Route sure time EL EL	<ul> <li>Mouse, male ar</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body w</li> <li>4 mg/kg body w</li> <li>positive</li> <li>Lymph nodes</li> </ul>	reight
	cation Route sure time	: Rat, male and f : oral (feed) : 2 Years : negative	emale
Spec Appli Expo NOA Resu	cation Route sure time EL	: Dog, male and : oral (feed) : 2 Years : 1 mg/kg body w : negative	
Form	naldehyde:		
Spec Appli	ies cation Route sure time	: Rat : inhalation (gas) : 28 Months : positive	
Carci ment	inogenicity - Assess-	: Sufficient evide	nce of carcinogenicity in animal experiments
-	oductive toxicity lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
	methrin (ISO): ts on fertility	Species: Rat Application Rou Early Embryoni weight Symptoms: No	ee-generation reproduction toxicity study ite: oral (feed) c Development: NOAEL: 50 mg/kg body effects on fertility, Embryo-foetal toxicity ficant toxicity observed in testing

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

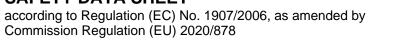


# **Deltamethrin (1.47%) Formulation**

rsion )	Revision Date: 06.04.2024	SDS Number:Date of last issue: 05.12.202310863946-00008Date of first issue: 11.10.2022
		Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: LOAEL: 84 - 149 mg/kg boo weight Symptoms: No effects on fertility, Embryo-foetal toxicity
		Test Type: Fertility Species: Rat, male Application Route: Oral Fertility: LOAEL: 1 mg/kg body weight Symptoms: Effects on fertility Target Organs: Testes
Effect ment	s on foetal develop-	<ul> <li>Test Type: Development Species: Mouse Application Route: oral (gavage) Developmental Toxicity: LOAEL: 1 mg/kg body weight Result: Skeletal malformations Remarks: Maternal toxicity observed.</li> </ul>
		Test Type: Development Species: Rat, female Developmental Toxicity: NOAEL: 10 mg/kg body weight Symptoms: No effects on foetal development
		Test Type: Development Species: Rabbit, female Application Route: oral (gavage) Developmental Toxicity: NOAEL: 16 mg/kg body weight Symptoms: No effects on foetal development
Repro sessn	oductive toxicity - As- nent	: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experime
Form	aldehyde:	
Effect ment	s on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (gas) Result: negative
	enzisothiazol-3(2H)-o	
Effect	s on fertility	: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Method: OPPTS 870.3800 Result: negative

### STOT - single exposure

Not classified based on available information.





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Comp	oonents:			
deltar	nethrin (ISO):			
Asses		:	May cause respir	atory irritation.
Form	aldehyde:			
Asses	sment	:	May cause respir	atory irritation.
STOT	- repeated exposure	•		
May c	ause damage to organ	ns thr	ough prolonged or	repeated exposure.
Comp	oonents:			
deltar	nethrin (ISO):			
	sure routes	:	Ingestion	
	t Organs	:		system, Immune system
Asses	sment	:	Causes damage exposure.	to organs through prolonged or repeated
Expos	sure routes	:	inhalation (dust/n	nist/fume)
	t Organs	:	Central nervous	
Asses	sment	:	Causes damage exposure.	to organs through prolonged or repeated
Form	aldehyde:			
	sure routes		inhalation (gas)	
	sment	:	The substance of	r mixture is not classified as specific target epeated exposure.
1,2-Be	enzisothiazol-3(2H)-c	one:		
Asses	sment	:	No significant heations of 100 mg/k	alth effects observed in animals at concentra- g bw or less.
Repea	ated dose toxicity			
Comp	oonents:			
deltar	nethrin (ISO):			
Speci		:	Rat, male and fer	nale
NOAE		:	1 mg/kg	
LOAE	L ation Route	:	2,5 mg/kg Oral	
	sure time	:	: 13 Weeks	
Targe	t Organs	:	Nervous system	
Symp	toms	:	hyperexcitability	
Speci	es	:	Rat	
LÒAE	AEL : 3 mg/m3			
	ation Route	:	inhalation (dust/n 2 wk / 5 d/wk / 6	
		•	2 WK / 5 G/WK / 0	10 G

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



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Sympt	oms	: Local irritation, respiratory tract irritation	
Expos	L L ation Route ure time t 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>	-
Expos Target	L L ation Route ure time t Organs	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system	
Expos	L ation Route ure time t 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>	
Forma	aldehyde:		
	L	: Rat : 6 ppm : 10 ppm : inhalation (gas) : 28 Days	
1,2-Be	enzisothiazol-3(2H)-o	e:	
	L L ation Route ure time	<ul> <li>Dog</li> <li>5 mg/kg</li> <li>20 mg/kg</li> <li>Ingestion</li> <li>90 Days</li> <li>Directive 67/548/EEC, Annex, B.27</li> </ul>	
-	ation toxicity assified based on avai	ble information.	
11.2 Inform	nation on other hazar	S	
Endoc	crine disrupting prop	rties	
<u>Produ</u> Asses		: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation	d-

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



# **Deltamethrin (1.47%) Formulation**

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:	
deltamethrin (ISO):	
Inhalation	<ul> <li>Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling, Palpitation, Blurred vision, muscle twitching</li> </ul>
Skin contact Ingestion	<ul> <li>Symptoms: Skin irritation, Erythema, pruritis, Headache, Nausea, Vomiting, Dizziness, tingling, Sweating, muscle twitching, Blurred vision, Fatigue, anorexia, Allergic reactions</li> <li>Symptoms: muscle pain, Small pupils</li> </ul>

### **SECTION 12: Ecological information**

Experience with human exposure

### 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)
II		NOEC: 0,000017 mg/l

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			Exposure time: 26 Species: Pimepha	60 d ales promelas (fathead minnow)				
	ity to daphnia and other tic invertebrates (Chron- icity)		NOEC: 0,0041 µg/l Exposure time: 21 d Species: Daphnia magna (Water flea)					
M-Fa toxicit	ctor (Chronic aquatic ty)	:	1.000.000					
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				
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0,1 - 1 mg/l 3 h on data from similar materials				
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To					
		EC10 (Selenastrum capricornutun Exposure time: 72 h Method: OECD Test Guideline 20 Remarks: Based on data from sim		est Guideline 201				
M-Fa icity)	ctor (Acute aquatic tox-	:	1					
Toxic icity)	ity to fish (Chronic tox-	:	<ul> <li>NOEC: &gt; 0,1 - 1 mg/l Exposure time: 100 d Species: Oryzias latipes (Japanese medaka) Remarks: Based on data from similar materials</li> </ul>					
	ity to daphnia and other tic invertebrates (Chron- icity)	:	<ul> <li>NOEC: &gt; 0,001 - 0,01 mg/l</li> <li>Exposure time: 28 d</li> <li>Species: Mysidopsis bahia (opossum shrimp)</li> <li>Remarks: Based on data from similar materials</li> </ul>					
M-Fa	ctor (Chronic aquatic ty)	:	10					
Form	aldehyde:							
Toxic	ity to fish	:	LC50 : 6,7 mg/l Exposure time: 96 Remarks: Based 6	b h on data from similar materials				
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia p Exposure time: 48 Method: OECD Te					

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ersion )	Revision Date: 06.04.2024		0S Number: 863946-00008	Date of last issue: 05.12.2023 Date of first issue: 11.10.2022			
Toxicit plants	ty to algae/aquatic	:	EC50 (Desmodes Exposure time: 72 Method: OECD To				
Toxici	ty to microorganisms	:	EC50 : 34,1 mg/l Exposure time: 120 h				
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: >= 48 mg/l Exposure time: 28 d Species: Oryzias latipes (Orange-red killifish)				
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: >= 6,4 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211				
	enzisothiazol-3(2H)-on ty to fish	e: :	LC50 (Opcorbypc	hus mykiss (rainbow trout)): 0,74 mg/l			
TOXICI		•	Exposure time: 96				
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 2,24 mg/l Exposure time: 48 h				
Toxicit plants	ty to algae/aquatic	:	ErC50 (Pseudokir 0,1087 mg/l Exposure time: 24	chneriella subcapitata (green algae)): I h			
			EC10 (Pseudokiro mg/l Exposure time: 24	chneriella subcapitata (green algae)): 0,0268 I h			
M-Fac icity)	tor (Acute aquatic tox-	:	1				
Toxici	ty to microorganisms	:	NOEC : 10,3 mg/l Exposure time: 3 Method: OECD Te	h			
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: 0,28 mg/l Exposure time: 33 Species: Pimepha Method: OECD Te	ales promelas (fathead minnow)			
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: 0,91 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)			
M-Fac toxicity	tor (Chronic aquatic ⁄)	:	1				

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12.2 Persi	stence and degradab	ility			
<u>Comp</u>	oonents:				
delta	methrin (ISO):				
Stabil	ity in water	:	Hydrolysis: 0 %(3	30 d)	
Nony	Iphenol, ethoxylated:				
Biode	gradability	:		ly biodegradable. on data from similar materials	
	aldehyde:				
Biode	gradability	:		91 %	
12.3 Bioad	ccumulative potential				
Comp	oonents:				
delta	methrin (ISO):				
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.800	
	on coefficient: n- ol/water	:	log Pow: 4,6		
Nony	Iphenol, ethoxylated:				
	on coefficient: n- ol/water	:	log Pow: 4,48		
	aldehyde:				
	on coefficient: n- ol/water	:	log Pow: 0,35 Remarks: Calcula	ation	
1,2-B	enzisothiazol-3(2H)-o	ne:			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 6,62	
	on coefficient: n- ol/water	:	log Pow: 0,7		
12.4 Mobi	lity in soil				
Comp	oonents:				
delta	methrin (ISO):				
Distrik	oution among environ- al compartments	:	log Koc: 7,2		



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12.5 Resu	lts of PBT and vPvB	assessment					
Prod	uct:						
Asses	ssment	to be either p	ce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or nt and very bioaccumulative (vPvB) at levels of er.				
12.6 Endo	ocrine disrupting pro	perties					
Prod	uct:						
Asses	ssment	have endocr ing to REAC	ce/mixture contains components considered to ine disrupting properties for environment, accord- H Article 57(f), Commission Regulation (EU) Commission Delegated Regulation (EU)				
Com	oonents:						
Nony	Iphenol, ethoxylated	l:					
Asses	ssment		: The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.				
	142: Dispession						

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

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
ΙΑΤΑ	: UN 3082



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14.2 L	JN pro	oper shipping name					
A	<b>DN</b>		:	ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
				(deltamethrin (ISO), Nonylphenol, ethoxylated)			
Δ	ADR		:	ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
					D), Nonylphenol, ethoxylated)		
R	RID		:		ALLY HAZARDOUS SUBSTANCE, LIQUID,		
11				N.O.S. (deltamethrin (ISC	D), Nonylphenol, ethoxylated)		
	MDG		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI			
					D), Nonylphenol, ethoxylated)		
и П	ΑΤΑ		:	Environmentally hazardous substance, liquid, n.o.s. (deltamethrin (ISO), Nonylphenol, ethoxylated)			
14.3 T	Frans	port hazard class(es)					
				Class	Subsidiary risks		
A	ADN		:	9			
A	ADR		:	9			
R	RID		:	9			
II	MDG		:	9			
L	ΑΤΑ		:	9			
14.4 F	Packir	ng group					
F C F	Classif	g group ication Code I Identification Number	:	III M6 90 9			
F C F L	Classif Hazaro Labels	g group ication Code I Identification Number restriction code	:	III M6 90 9 (-)			
F C F L	Classif Hazaro Labels	g group ication Code I Identification Number	:	III M6 90 9			
F	MDG Packin Labels EmS C		:	III 9 F-A, S-F			

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### **Deltamethrin (1.47%) Formulation**

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	aircraft)	g instruction (cargo g instruction (LQ)	:	964 Y964 III Miscellaneous	
	Packing ger airc Packing Packing Labels	g instruction (LQ)	:	964 Y964 III Miscellaneous	
-	ADN				
		mentally hazardous	:	yes	
	<b>ADR</b> Environ	mentally hazardous	:	yes	
	<b>RID</b> Environ	mentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	
		Passenger) Imentally hazardous	:	yes	
	<b>IATA ((</b> Environ	Cargo) Imentally hazardous	:	yes	
		l precautions for use	ər	-	

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 var-

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

iations in regional or country regulations.

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		Substance(s) or mixture(s) are listed

here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi-

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### **Deltamethrin (1.47%) Formulation**

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		manufacture, placing c		determine wheth	nding Regulation to er an entry is appli- ing on the market or
	res and articles (Annex	э,		se this product as contact your ven-	
				72, 28)	lumber on list 77, oxylated (Number
	CH - Candidate List of S ern for Authorisation (A	Substances of Very High	n :	Nonylphenol, eth	oxylated
REAC		subject to authorisation	:	Nonylphenol, eth	oxylated
Regu		09 on substances that o	de- :	Not applicable	
Regu		on persistent organic po	ollu- :	Not applicable	
Regu ment	ation (EU) No 649/201	2 of the European Parlia ming the export and imp		Nonylphenol, eth	oxylated
Seves	so III: Directive 2012/18	/EU of the European Pa lving dangerous substat		nt and of the Counc	il on the control of
E1		ENVIRONMENT/ HAZARDS		Quantity 1 100 t	Quantity 2 200 t

#### Other regulations:

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

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

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

AICS	-	:	not determined
DSL		:	not determined
IECSC		:	not determined

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

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



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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 t	ext of H-Statements			
H221		: Flammable gas.		
H301		Toxic if swallowed.		
H302		Harmful if swallowed.		
H311		Toxic in contact with skin.		
H314		: Causes severe skin burns and eye damage.		
H315		: Causes skin irritation.		
H317		: May cause an allergic skin reaction.		
H318		: Causes serious eye damage.		
H319		: Causes serious eye irritation.		
H330		Fatal if inhaled.		
H331		: Toxic if inhaled.		
H335		: May cause respiratory irritation.		
H341		: Suspected of causing genetic defects.		
H350		: May cause cancer.		
H361	fd	: 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 t	ext of other abbrevia	tions		
Acute	e Tox.	: Acute toxicity		
Aqua	tic Acute	: Short-term (acute) aquatic hazard		
	tic Chronic	: Long-term (chronic) aquatic hazard		
Carc.		: Carcinogenicity		
Eye Dam.		: Serious eye damage		
Eye li		: Eye irritation		
Flam. Gas		: Flammable gases		
Muta.		Germ cell mutagenicity		
Repr.		: Reproductive toxicity		
Skin (	Corr.	: Skin corrosion		
Skin Irrit.		: Skin irritation		
Skin S	Sens.	: 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 related to exposure to carcinogens or mutagen		
		at work		
FOR-2011-12-06-1358		Norway. Occupational Exposure limits		
2004/37/EC / STEL		: Short term exposure limit		
2004/37/EC / TWA		: Long term exposure limit		
FOR-2011-12-06-1358 /		: Long term exposure limit		
TWA				
FOR-	2011-12-06-1358 /	: Short term exposure limit		
STEL				



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

#### Further information

Classification of the mixture:	Classification procedure:	
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/	

Classification of the m	nixture:	Classification proce
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

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



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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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