according to GB/T 16483 and GB/T 17519



# **Deltamethrin (1.05%) Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 2023/11/03
1.7	2024/04/06	10215162-00008	Date of first issue: 2021/11/10

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Deltamethrin (1.05%) Formulation				
Manufacturer or supplier's de Company	Manufacturer or supplier's details					
Address		No. 485 Jing Tai Road				
	•	Pu Tuo District - Shanghai - China 200331				
Telephone	:	+1-908-740-4000				
Emergency telephone number	:	86-571-87268110				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use Restrictions on use	:	Veterinary product Not applicable				

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance Colour Odour	:	liquid Colorless to pale yellow No data available
May cause an allergic skin read exposure. Very toxic to aquatic		n. May cause damage to organs through prolonged or repeated with long lasting effects.
GHS Classification		
Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

#### **GHS** label elements

according to GB/T 16483 and GB/T 17519



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Hazard	l pictograms	:		
Signal	word	:	Warning	$\checkmark$
Hazard	l statements	:	H373 May cause peated exposure	an allergic skin reaction. damage to organs through prolonged or re- to aquatic life with long lasting effects.
Precau	tionary statements	:	P272 Contamination the workplace.	athe mist or vapours. ted work clothing should not be allowed out of se to the environment. ctive gloves.
			P314 Get medica P333 + P313 If s vice/ attention.	ON SKIN: Wash with plenty of water. al advice/ attention if you feel unwell. kin irritation or rash occurs: Get medical ad- ke off contaminated clothing and wash it before lage.
			<b>Disposal:</b> P501 Dispose of disposal plant.	contents/ container to an approved waste

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

#### **Environmental hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### Other hazards which do not result in classification

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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

according to GB/T 16483 and GB/T 17519



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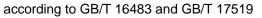
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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
deltamethrin (ISO)	52918-63-5	>= 1 -< 2.5

#### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. 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.
Most important symptoms and effects, both acute and delayed	:	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.
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).
Notes to physician	:	Treat symptomatically and supportively.
5. FIREFIGHTING MEASURES		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)





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	Specifi ods	c extinguishing meth-	:	Bromine compounds Use extinguishing measures that are appropriate to local ci cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so.	
	Specia for firef	l protective equipment ighters	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. ective equipment.
6. A	CCIDE	NTAL RELEASE MEAS	SUF	RES	
	tive eq	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Enviror	nmental precautions	<ul> <li>Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containme barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillage cannot be contained.</li> </ul>		akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		ds and materials for ment and cleaning up	:	Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national n posal of this mate employed in the c mine which regula Sections 13 and 1	a absorbent material. dust in the air (i.e., clearing dust surfaces air). Juld not be allowed to accumulate on surfac- form an explosive mixture if they are re- mosphere in sufficient concentration. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

### 7. HANDLING AND STORAGE

#### Handling

Technical measures : Static electricity may accumulate and ignite suspended dust causing an explosion.

Provide adequate precautions, such as electrical grounding

according to GB/T 16483 and GB/T 17519



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Advic	/Total ventilation e on safe handling lance of contact	<ul> <li>If sufficient very ventilation.</li> <li>Do not get on s Do not breathe Do not swallow Avoid contact w Wash skin thor Handle in acco practice, based sessment Minimize dust e Keep contained Keep away froi Take precautio Do not eat, drir</li> </ul>	mist or vapours. with eyes. oughly after handling. rdance with good industrial hygiene and safety d on the results of the workplace exposure as- generation and accumulation. r closed when not in use. m heat and sources of ignition. nary measures against static discharges. hk or smoke when using this product. revent spills, waste and minimize release to the
Stora	ige		
	itions for safe storage	Store in accord	ly labelled containers. lance with the particular national regulations. ith the following product types: g agents
Packa	aging material	: Unsuitable mat	erial: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
deltamethrin (ISO)	52918-63-5	PC-TWA	0.03 mg/m3	CN OEL	
		TWA	15 µg/m3 (OEB 3)	Internal	
	Further information: DSEN, Skin				
		Wipe limit	100 µg/100 cm²	Internal	

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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.

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#### Personal protective equipment

Respiratory protection Filter type Eye/face protection	If adequate local exhaust ventilation is not available or esure assessment demonstrates exposures outside the rommended guidelines, use respiratory protection. Combined particulates and organic vapour type Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, aerosols.	ec- ons, a
Skin and body protection	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove poter contaminated clothing.	dis-
Hand protection		
Material	Chemical-resistant gloves	
Remarks Hygiene measures	Consider double gloving. If exposure to chemical is likely during typical use, proviey flushing systems and safety showers close to the wing place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review engineering controls, proper personal protective equipmer appropriate degowning and decontamination procedure industrial hygiene monitoring, medical surveillance and use of administrative controls.	ork- of the w of nent, s,

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	Colorless to pale yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 150 °C

according to GB/T 16483 and GB/T 17519



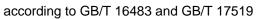
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	Flash p	point	:	> 93 °C	
	Evene	ration rate		No data available	
	Evapol	ration rate	:	NO Uata available	5
	Flamm	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.
	Flamm	ability (liquids)	:	Ignitable (see flas	sh point)
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	re density	:	0.945 - 0.955 (20	) °C)
	Density	y	:	No data available	9
	Solubil Wa	ity(ies) ter solubility	:	No data available	9
		on coefficient: n-	:	Not applicable	
	octano Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscos				
	VIS	cosity, kinematic	:	No data available	3
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ular weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	

#### **10. STABILITY AND REACTIVITY**

Reactivity

: Not classified as a reactivity hazard.





/ersion I.7	Revision Date: 2024/04/06		S Number: 215162-00008	Date of last issue: 2023/11/03 Date of first issue: 2021/11/10
	nical stability ibility of hazardous reac-	:	May form explose dling or other me	m explosive mixture with air. ive dust-air mixture during processing, han-
Conc	litions to avoid	:	Heat, flames and	
	npatible materials Irdous decomposition ucts	:	Avoid dust forma Oxidizing agents No hazardous de	
11. TOXIC	COLOGICAL INFORMAT	ΓΙΟΝ	I	
Expo	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> classified based on availa	ble	nformation.	
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method
Acute	e inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist
<u>Com</u>	ponents:			
delta	methrin (ISO):			
Acute	e oral toxicity	:	LD50 (Rat): 66.7	mg/kg
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 1	9 - 34 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 0.8 n Exposure time: 2 Test atmosphere	ĥ
Acute	e dermal toxicity	:	LD50 (Rabbit): 2,	000 mg/kg
			LD50 (Rat): > 80	) mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 2.5 n Application Route	

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LD50 (Mouse): 10 mg/kg Application Route: Intraperitoneal

#### Skin corrosion/irritation

Not classified based on available information.

#### **Components:**

#### deltamethrin (ISO):

Species	:	Rabbit
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### deltamethrin (ISO):

Species	:	Rabbit
Result	:	Moderate eye irritation

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### deltamethrin (ISO):

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

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### deltamethrin (ISO):

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES) Result: negative

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		Test Type: DNA Test system: Es Result: negative	scherichia coli
			omosomal aberration ninese hamster ovary cells e
		Test system: Ch	tro mammalian cell gene mutation test ninese hamster lung cells LOAEL: 20 mg/kg
Geno	toxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Oral
		Test Type: dom Species: Mouse Application Rou Result: negative	e ite: Oral
		Test Type: siste Species: Mouse Cell type: Bone Application Rou Result: negative	marrow tte: Oral
	i <b>nogenicity</b> lassified based on ava	ailable information.	
Com	ponents:		
delta	methrin (ISO):		
Expo NOAI 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 for : oral (feed) : 2 Years : negative	emale
Spec Appli	ies cation Route	: Dog, male and t : oral (feed)	female

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	Exposure time NOAEL Result	: : :	2 Years 1 mg/kg body we negative	ight
	Reproductive toxicity Not classified based on availa	ble	information.	
	Components:			
	deltamethrin (ISO):			
	Effects on fertility	:	Species: Rat Application Route Early Embryonic weight Symptoms: No eff	-generation reproduction toxicity study e: oral (feed) Development: NOAEL: 50 mg/kg body fects on fertility, Embryo-foetal toxicity cant toxicity observed in testing
			Species: Rat Application Route Early Embryonic weight	eneration reproduction toxicity study : Oral Development: LOAEL: 84 - 149 mg/kg body fects on fertility, Embryo-foetal toxicity
			Test Type: Fertilit Species: Rat, ma Application Route Fertility: LOAEL: Symptoms: Effec Target Organs: T	le e: Oral 1 mg/kg body weight ts on fertility
	Effects on foetal develop- ment	:	Result: Skeletal r	e: oral (gavage) oxicity: LOAEL: 1 mg/kg body weight
				female
	Reproductive toxicity - As-	:	Some evidence c	f adverse effects on sexual function and





ersion .7	Revision Date: 2024/04/06	SDS Number: 10215162-0000	Date of last issue: 2023/11/03 Date of first issue: 2021/11/10
sessn	nent	fertility, and	for on development, based on animal experiments
	- single exposure lassified based on ava	ailable information.	
Comp	oonents:		
delta	methrin (ISO):		
Asses	ssment	: May cause	respiratory irritation.
	- repeated exposur		
-		ans through prolong	ed or repeated exposure.
	oonents:		
Expos Targe	<b>methrin (ISO):</b> sure routes et Organs ssment		rous system, Immune system hage to organs through prolonged or repeated
Targe	sure routes et Organs ssment	: Central nerv	dust/mist/fume) yous system nage to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
delta	methrin (ISO):		
Expos	EL EL cation Route sure time et Organs	: Rat, male a : 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous sys : hyperexcita	stem
	EL cation Route sure time	: 2 wk / 5 d/w	lust/mist/fume) k / 6 h/d on, respiratory tract irritation
	EL	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks	

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sion	Revision Date: 2024/04/06	SDS Number: 10215162-00008	Date of last issue: 2023/11/03 Date of first issue: 2021/11/10
	et Organs	: Nervous system	
Symptoms		tion	pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Speci		: Rat	
NOAE		: 14 mg/kg	
LOAE	cation Route	: 54 mg/kg : Oral	
	sure time	: 91 d	
•	et Organs	: Nervous system	
Speci		: Mouse	
LOAE		: 6 mg/kg	
	cation Route sure time	: Oral	
	et Organs	: 12 Weeks : Immune system	
Symp		: immune system	
Not cl Expe	ration toxicity lassified based on availa rience with human exp		
Not cl Expe Com	lassified based on availa rience with human exp ponents:		
Not cl Expe <u>Comp</u> delta	lassified based on availa rience with human exp ponents: methrin (ISO):	osure	piratory tract irritation. Dizziness. Sweating.
Not cl Expe Comp delta Inhala	lassified based on availa rience with human exp ponents: methrin (ISO): ation	osure : Symptoms: resp Headache, Nau Palpitation, Blur	piratory tract irritation, Dizziness, Sweating, sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching
Not cl Expe <u>Comp</u> delta Inhala Skin d	lassified based on availa rience with human exp ponents: methrin (ISO): ation	osure : Symptoms: resp Headache, Nau Palpitation, Blur : Symptoms: Skir sea, Vomiting, E Blurred vision, F	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Na Dizziness, tingling, Sweating, muscle twitchin fatigue, anorexia, Allergic reactions
Not cl Expe Comp delta Inhala	lassified based on availa rience with human exp ponents: methrin (ISO): ation	osure : Symptoms: resp Headache, Nau Palpitation, Blur : Symptoms: Skir sea, Vomiting, E Blurred vision, F	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Na Dizziness, tingling, Sweating, muscle twitchin
Not cl Expe <u>Comp</u> delta Inhala Skin c Inges	lassified based on availa rience with human exp ponents: methrin (ISO): ation	<ul> <li>osure</li> <li>Symptoms: resp Headache, Nau Palpitation, Blur</li> <li>Symptoms: Skir sea, Vomiting, E Blurred vision, F</li> <li>Symptoms: mus</li> </ul>	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Nau Dizziness, tingling, Sweating, muscle twitchin fatigue, anorexia, Allergic reactions
Not cl Expe <u>Comp</u> delta Inhala Skin c Inges	lassified based on availa rience with human exp ponents: methrin (ISO): ation contact	<ul> <li>osure</li> <li>Symptoms: resp Headache, Nau Palpitation, Blur</li> <li>Symptoms: Skir sea, Vomiting, E Blurred vision, F</li> <li>Symptoms: mus</li> </ul>	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Na Dizziness, tingling, Sweating, muscle twitchin fatigue, anorexia, Allergic reactions
Not cl Expe <u>Comp</u> delta Inhala Skin c Inges ECOL	lassified based on availa rience with human exp ponents: methrin (ISO): ation contact tion OGICAL INFORMATION	<ul> <li>osure</li> <li>Symptoms: resp Headache, Nau Palpitation, Blur</li> <li>Symptoms: Skir sea, Vomiting, E Blurred vision, F</li> <li>Symptoms: mus</li> </ul>	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Nau Dizziness, tingling, Sweating, muscle twitchin fatigue, anorexia, Allergic reactions
Not cl Expe Comp delta Inhala Skin cl Inges ECOL Ecoto Comp	lassified based on availa rience with human exp ponents: methrin (ISO): ation contact tion OGICAL INFORMATION	<ul> <li>osure</li> <li>Symptoms: resp Headache, Nau Palpitation, Blur</li> <li>Symptoms: Skir sea, Vomiting, E Blurred vision, F</li> <li>Symptoms: mus</li> </ul>	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Nau Dizziness, tingling, Sweating, muscle twitchin fatigue, anorexia, Allergic reactions
Not cl Expe Comj delta Inhala Skin c Inges ECOL Ecoto Comj delta	lassified based on availa rience with human exp ponents: methrin (ISO): ation contact tion OGICAL INFORMATION oxicity ponents:	<ul> <li>osure</li> <li>Symptoms: resp Headache, Nau Palpitation, Blur</li> <li>Symptoms: Skir sea, Vomiting, D Blurred vision, F</li> <li>Symptoms: mus</li> </ul>	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Nau Dizziness, tingling, Sweating, muscle twitchin Fatigue, anorexia, Allergic reactions iccle pain, Small pupils
Not cl Expe Comj delta Inhala Skin c Inges ECOL Ecoto Comj delta	lassified based on availa rience with human exp ponents: methrin (ISO): ation contact tion OGICAL INFORMATION ponents: methrin (ISO):	<ul> <li>Symptoms: resp Headache, Nau Palpitation, Blur</li> <li>Symptoms: Skir sea, Vomiting, E Blurred vision, F</li> <li>Symptoms: mus</li> <li>Symptoms: mus</li> </ul>	sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching n irritation, Erythema, pruritis, Headache, Na Dizziness, tingling, Sweating, muscle twitchin Fatigue, anorexia, Allergic reactions scle pain, Small pupils on variegatus (sheepshead minnow)): 0.000 96 h nchus mykiss (rainbow trout)): 0.00039 mg/l

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			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0035 mg/l 3 h
			LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD To	
	ctor (Acute aquatic tox-	:	1,000,000	
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 36	es promelas (fathead minnow)): 0.000022 S d
			NOEC (Pimephale mg/l Exposure time: 26	es promelas (fathead minnow)): 0.000017 60 d
	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0041 μg/l I d
	ctor (Chronic aquatic	:	1,000,000	
Persi	istence and degradabili	ity		
<u>Com</u>	ponents:			
	<b>methrin (ISO):</b> lity in water	:	Hydrolysis: 0 %(3	0 d)
Bioa	ccumulative potential			
Com	ponents:			
	methrin (ISO): ccumulation	:		macrochirus (Bluegill sunfish) factor (BCF): 1,800
	ion coefficient: n- iol/water	:	log Pow: 4.6	
Mobi	lity in soil			
Com	ponents:			
	methrin (ISO): bution among environ-	:	log Koc: 7.2	

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ment	tal compartments					
Othe	er adverse effects					
No d	ata available					
13. DISP	OSAL CONSIDERATION	NS				
Disp	osal methods					
-	Waste from residues Contaminated packaging			f waste into sewer.		
Cont			Dispose of in accordance with local regulations. 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.			
14. TRAN	ISPORT INFORMATION	I				
Inter	national Regulations					
	_					
	N.O.S.		UN 3082			
Prop				ALLY HAZARDOUS SUBSTANCE, LIQUID,		
Clas		:	9	<i></i>		
	king group	÷	 			
	Labels Environmentally hazardous		9 yes			
	A-DGR		<b>,</b>			
	D No.	:	UN 3082			
Proper shipping name		:	Environmentally hazardous substance, liquid, n.o.s. (deltamethrin (ISO))			
Clas		:	9			
	Packing group Labels Packing instruction (cargo aircraft)		III Miscellaneous			
Pack			964			
Packing instruction (passen- ger aircraft) Environmentally hazardous		:	964			
		:	yes			
	G-Code					
	number er shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
Clas	6		(deltamethrin (IS	0))		
	s ting group	;	9 III			
Labe	els	:	9			
		:	F-A, S-F			
iviarii	ne pollutant	:	yes			

according to GB/T 16483 and GB/T 17519



# Deltamethrin (1.05%) Formulation

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#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

GB 6944/12268		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(deltamethrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no

#### 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.

#### 15. REGULATORY INFORMATION

#### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### **Regulation on the Administration of Precursor Chemicals**

Catalogue and Classification of Precursor Chemicals : Not listed

#### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

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

#### **16. OTHER INFORMATION**

Revision Date	:	2024/04/06	
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/	
Date format	:	yyyy/mm/dd	
Full text of other abbreviations			



# Deltamethrin (1.05%) Formulation

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CN OEL

: Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

CN OEL / PC-TWA : Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

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.

CN/EN