

Version 4.2	Revision Date: 03.11.2023		96211-00016	Date of last issue: 30.09.2023 Date of first issue: 25.04.2017			
SECTION	1. IDENTIFICATION						
Produ	Product name		Deltamethrin Lic	uid Formulation			
Manu	ifacturer or supplier's	s deta	ils				
Comp	Company		MSD				
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
Telep	hone	:	908-740-4000				
Emer	Emergency telephone		1-908-423-6000				
E-ma	il address	: EHSDATASTEWARD@msd.com		VARD@msd.com			
Reco	mmended use of the	chem	nical and restricti	ons on use			
	mmended use ictions on use	:	Veterinary produ Not applicable	uct			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irritation	:	Category 1
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 2 (Central nervous system)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements



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Haza	rd pictograms					
Signa	al Word	: Danger				
Hazard Statements		H317 May cau H318 Causes H361fd Suspe ing the unborn H373 May cau Immune syste swallowed. H373 May cau through prolon	 H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Central nervous system, Immune system) through prolonged or repeated exposure if swallowed. H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled. H410 Very toxic to aquatic life with long lasting effects. 			
Preca	autionary Statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P272 Contami the workplace P273 Avoid re	reathe mist or vapors. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-			
		Response: P301 + P312 - CENTER/ doc P302 + P352 I P305 + P351 - water for seve and easy to do CENTER/ doc P308 + P313 I attention. P333 + P313 I vice/ attention.	 P330 IF SWALLOWED: Call a POISON tor if you feel unwell. Rinse mouth. F ON SKIN: Wash with plenty of water. P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON tor. F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad- Take off contaminated clothing and wash it before spillage. 			
		Disposal:	of contents/ container to an approved waste			



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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).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-	9002-93-1	>= 50 -< 70
omega-hydroxypoly(oxy-1,2-ethanediyl)		
Deltamethrin (ISO)	52918-63-5	>= 3 -< 5

General advice In the case of accident or if you feel unwell, seek medical : advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 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 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately. If swallowed : If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Harmful if swallowed. Most important symptoms and effects, both acute and May cause an allergic skin reaction. delayed Causes serious eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. May cause damage to organs through prolonged or repeated exposure if inhaled. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning. First Aid responders should pay attention to self-protection, Protection of first-aiders and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Notes to physician Treat symptomatically and supportively. :

SECTION 4. FIRST AID MEASURES



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SECTION 5. FIRE-FIGHTING MEASURES					
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
Unsui media	table extinguishing	:	None known.		
Specific hazards during fire fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		:	Exposure to com	bustion products may be a hazard to health.	
		:	Carbon oxides Nitrogen oxides (Bromine compou		
		:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
	al protective equipment e-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.	

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- Technical measures
- : See Engineering measures under EXPOSURE



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Local/Total ventilation		CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation.				
Ad	lvice on safe handling	Do not breathe Do not swallow Do not get in ey Wash skin thord Handle in accor practice, based assessment Keep container Do not eat, drin	Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the			
Cc	nditions for safe storage	Store locked up Keep tightly clo				
Ma	aterials to avoid	: Do not store wit Strong oxidizing	th the following product types: g agents ibstances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Deltamethrin (ISO)	52918-63-5	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., 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 Respiratory protection	If adequate local exhaust ventilation is not available or

Respiratory protection	:	If adequate local exhaust ventilation is not available or
		exposure assessment demonstrates exposures outside the
		recommended guidelines, use respiratory protection.
Filter type	:	Particulates type



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Hand	protection						
Ma	aterial	:	Chemical-resistar	Chemical-resistant gloves			
Remarks Eye protection		:	Consider double gloving. 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.				
Skin and body protection		:	task being perform disposable suits)	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. degowning techniques to remove potentially			
Hygiene measures		:	If exposure to che eye flushing syste working place. When using do no Contaminated wo workplace. Wash contaminate The effective ope engineering contr appropriate degor	emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. In clothing should not be allowed out of the ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, e monitoring, medical surveillance and the			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	3,4 - 4 (20 °C)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partitio octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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



ion	Revision Date: 03.11.2023		96211-00016	Date of last issue: 30.09.2023 Date of first issue: 25.04.2017
Acute	toxicity			
Harmf	ul if swallowed.			
<u>Produ</u>	<u>ict:</u>			
Acute	oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 956,51 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
<u>Comp</u>	onents:			
Alpha	-(4-(1,1,3,3-Tetramethy	/lbu	tyl)phenyl)-omeg	a-hydroxypoly(oxy-1,2-ethanediyl):
Acute	oral toxicity	:	LD50 (Rat): 1.900 Remarks: Based) - 5.000 mg/kg on data from similar materials
Acute	dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	3.000 mg/kg on data from similar materials
Deltar	nethrin (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 66,7	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	dermal toxicity	:	LD50 (Rabbit): 2.	000 mg/kg
			LD50 (Rat): > 800) mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 2,5 m Application Route	
			LD50 (Mouse): 10 Application Route	
	corrosion/irritation assified based on availa	hle	information	
	onents:	ne		
		/lb·	tul)nhonul) omor	a-hudrovunolulovu 1.2 othanodiul
Result		:	No skin irritation	a-hydroxypoly(oxy-1,2-ethanediyl):
Deltar	nethrin (ISO):			
Specie Result		:	Rabbit No skin irritation	
176201	L	·		



ersion .2	Revision Date: 03.11.2023		S Number: 96211-00016	Date of last issue: 30.09.2023 Date of first issue: 25.04.2017
Cario		irritoti		
	us eye damage/eye es serious eye damaç			
	oonents:	-		
Alpha	a-(4-(1,1,3,3-Tetrame	thylbu	tyl)phenyl)-ome	ga-hydroxypoly(oxy-1,2-ethanediyl)
Resu	• • •	:	Irreversible effect	
Delta	methrin (ISO):			
Speci		:	Rabbit	itati an
Resu	IT	:	Moderate eye irr	Itation
Resp	iratory or skin sens	itizatio	n	
•••••	sensitization	roactic	n an	
-	cause an allergic skin		P1 .	
	iratory sensitization lassified based on ava		information.	
<u>Com</u>	oonents:			
Delta	methrin (ISO):			
Test ⁻		:	Maximization Te	st
Route Speci	es of exposure	:	Dermal Guinea pig	
Resu		:	negative	
Test		:		sult patch test (HRIPT)
Route Speci	es of exposure	:	Dermal Humans	
Resu		:	positive	
Germ	cell mutagenicity			
Not c	assified based on available	ailable	information.	
<u>Com</u>	oonents:			
Delta	methrin (ISO):			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: DNA Test system: Ese Result: negative	cherichia coli
				mosomal aberration inese hamster ovary cells
			Test system: Ch	ro mammalian cell gene mutation test inese hamster lung cells .OAEL: 20 mg/kg
			9/17	



rsion	Revision Date: 03.11.2023	SDS Number: 1596211-00016	Date of last issue: 30.09.2023 Date of first issue: 25.04.2017
		Result: positive	
Genotoxicity 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: sister Species: Mouse Cell type: Bone Application Rout Result: negative	marrow te: Oral
	n ogenicity assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
Delta	methrin (ISO):		
Expos NOAE LOAE Resul	ation Route sure time L L	 Mouse, male and oral (feed) 104 weeks 8 mg/kg body we 4 mg/kg body we positive Lymph nodes 	eight
	es ation Route sure time	: Rat, male and fe : oral (feed) : 2 Years	emale
Resul		: negative	
	es ation Route sure time	: Dog, male and fe : oral (feed) : 2 Years	emale
NÓAE Resul	EL	: 1 mg/kg body we : negative	eight
-	oductive toxicity		
	ected of damaging fer conents:	tility. Suspected of dama	aging the unborn child.
	methrin (ISO):		
	s on fertility	Species: Rat Application Rout	e-generation reproduction toxicity study e: oral (feed) : Development: NOAEL: 50 mg/kg body
		10 / 17	



rsion 2	Revision Date: 03.11.2023	SDS Number: 1596211-0001	Date of last issue: 30.09.2023 Date of first issue: 25.04.2017
			No effects on fertility., Embryo-fetal toxicity. Significant toxicity observed in testing
		Species: R Application Early Embr weight	Two-generation reproduction toxicity study at Route: Oral yonic Development: LOAEL: 84 - 149 mg/kg body No effects on fertility., Embryo-fetal toxicity.
		Fertility: LC Symptoms	
Effects on fetal development		Species: M Application Developme Result: Ske	Development ouse Route: oral (gavage) ntal Toxicity: LOAEL: 1 mg/kg body weight letal malformations. /laternal toxicity observed.
		Species: R Developme	Development at, female ntal Toxicity: NOAEL: 10 mg/kg body weight No effects on fetal development.
		Species: R Application Developme	Development abbit, female Route: oral (gavage) ntal Toxicity: NOAEL: 16 mg/kg body weight No effects on fetal development.
Repro sessn	oductive toxicity - As- nent		ence of adverse effects on sexual function and I/or on development, based on animal experiment
	-single exposure assified based on availa	able information.	
Comp	oonents:		
Dalta	mothrin (ISO):		

Deltamethrin (ISO):

Assessment : Ma

: May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Central nervous system, Immune system) through prolonged or repeated exposure if swallowed.

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.



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<u>Comp</u>	oonents:		
Route Targe	methrin (ISO): es of exposure et Organs esment		s system, Immune system e to organs through prolonged or repeated
Targe	es of exposure It Organs Soment	 inhalation (dust Central nervous Causes damag exposure. 	
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Symp	EL EL cation Route sure time of Organs toms es toms EL cation Route sure time toms es	: Dog	n y /mist/fume)
Expos	L cation Route sure time t Organs	: 0,1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous syster : Dilatation of the	n 9 pupil, Vomiting, Tremors, Diarrhea, Salivation
Expos	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous syster	n
Expos	L cation Route sure time t Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune systen : immune systen	



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Aspir	ration toxicity		
Not c	lassified based on av	ailable information.	
Expe	rience with human e	exposure	
<u>Com</u>	ponents:		
Delta	methrin (ISO):		
Inhala	ation	Headache, Nau	biratory tract irritation, Dizziness, Sweating, sea, Vomiting, anorexia, Fatigue, tingling, red vision, muscle twitching
Skin	contact	: Symptoms: Skir sea, Vomiting, I	n irritation, Erythema, pruritis, Headache, Nau- Dizziness, tingling, Sweating, muscle twitching, Fatigue, anorexia, Allergic reactions
Inges	tion		scle pain, Small pupils

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Alpha-(4-(1,1,3,3-Tetramethy	Alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):					
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 4 - 8,9 mg/l Exposure time: 96 h Remarks: Based on data from similar materials				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18 - 26 mg/l Exposure time: 48 h Remarks: Based on data from similar materials				
Toxicity to microorganisms	:	IC50: 5.000 mg/l Exposure time: 16 h				
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				



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			Remarks: No tox	icity at the limit of solubility.
	or (Acute aquatic tox-	:	1.000.000	
icity) Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 3	les promelas (fathead minnow)): 0,000022 6 d
			NOEC (Pimephal mg/l Exposure time: 2	les promelas (fathead minnow)): 0,000017 60 d
	to daphnia and other invertebrates (Chron- tv)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0,0041 μg/l 1 d
	or (Chronic aquatic	:	1.000.000	
Persist	ence and degradabili	ty		
Compo	onents:			
Alpha-	(4-(1,1,3,3-Tetramethy	lbu	ıtyl)phenyl)-omeg	ja-hydroxypoly(oxy-1,2-ethanediyl):
Biodegi	radability	:	Biodegradation: Exposure time: 2 Method: OECD T	
			Result: Not readil Biodegradation: Exposure time: 2 Method: Closed B	36 % 8 d
Deltam	ethrin (ISO):			
	/ in water	:	Hydrolysis: 0 %(3	30 d)
Bioacc	umulative potential			
Compo	onents:			
Alpha-	(4-(1,1,3,3-Tetramethy	lbu	ıtyl)phenyl)-omeg	ja-hydroxypoly(oxy-1,2-ethanediyl):
Partition octanol	n coefficient: n- /water	:	log Pow: 2,7	
	ethrin (ISO):			
Bioaccu	umulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.800
Partition octanol	n coefficient: n- /water	:	log Pow: 4,6	
Mobilit	y in soil			
Compo	onents:			
Deltam	ethrin (ISO):			
Distribu	ition among environ-	:	log Koc: 7,2	



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ment	al compartments				
Othe	er adverse effects				
	ata available				
SECTION	I 13. DISPOSAL CONSI	DERATIONS			
Disp	osal methods				
Wast	te from residues	: Do not dispose	of waste into sewer.		
Cont	aminated packaging	: Empty container handling site for	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
SECTION	I 14. TRANSPORT INFO	RMATION			
Inter	national Regulations				
UNR	TDG				
	number	: UN 3082			
Prop	er shipping name	: ENVIRONMEN	ITALLY HAZARDOUS SUBSTANCE, LIQUID,		
			(ISO), Alpha-(4-(1,1,3,3- yl)phenyl)-omega-hydroxypoly(oxy-1,2-		
Clas		: 9			
	ing group	:			
Labe		: 9			
	ronmentally hazardous	: yes			
	A-DGR				
	D No. er shipping name	(Deltamethrin	y hazardous substance, liquid, n.o.s. (ISO), Alpha-(4-(1,1,3,3- tyl)phenyl)-omega-hydroxypoly(oxy-1,2-		
Clas	S	: 9			
	ing group	: 111			
Labe		: Miscellaneous			
Pack aircra	ing instruction (cargo	: 964			
Pack ger a	ing instruction (passen-	: 964			
Envii	ronmentally hazardous	: yes			
IMDO	G-Code				
	number er shipping name	N.O.S. (Deltamethrin (ITALLY HAZARDOUS SUBSTANCE, LIQUID, ISO), Alpha-(4-(1,1,3,3- tyl)phenyl)-omega-hydroxypoly(oxy-1,2-		
Class		: 9			
	ing group	:			
Labe		: 9 · EASE			
EmS	Code	: F-A, S-F			



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Marine pollutant : yes

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

Not applicable for product as supplied.

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.

SECTION 15. REGULATORY INFORMATION

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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

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Further information

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

Full text of other abbreviations

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 con-



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centration; 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

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 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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