



Deltamethrin Liquid Formulation

VersionRevision Date:SDS Number:Date of last issue: 09/30/20233.1211/03/20231559904-00018Date of first issue: 04/25/2017				
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SECTION 1. IDENTIFICATION

Product name	:	Deltamethrin Liquid Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

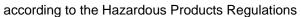
Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Acute toxicity (Oral)	dan :	ce with the Hazardous Products Regulations Category 4
Serious eye damage	:	Category 1
Skin sensitization	:	Sub-category 1A
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 1 (Central nervous system)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	 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. H372 Causes damage to organs (Central nervous system, Immune system) through prolonged or repeated exposure if swal-





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			lamage to organs (Central nervous system) jed or repeated exposure if inhaled.
Preca	autionary Statements	P202 Do not ha and understood P260 Do not br P264 Wash skii P270 Do not ea P272 Contamin the workplace.	eathe mist or vapors. In thoroughly after handling. It, drink or smoke when using this product. Iated work clothing should not be allowed out of tective gloves, protective clothing, eye protection
		unwell. Rinse m P302 + P352 IF P305 + P351 + water for severa and easy to do. CENTER. P308 + P313 IF P333 + P313 If tion.	P330 IF SWALLOWED: Call a doctor if you feel nouth. FON SKIN: Wash with plenty of water. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON Fexposed or concerned: Get medical attention. skin irritation or rash occurs: Get medical atten- ake off contaminated clothing and wash it before
		Storage: P405 Store lock	ked up.
		Disposal: P501 Dispose o disposal plant.	of contents and container to an approved waste

Other hazards

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).

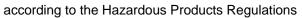
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

: Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Alpha-(4-(1,1,3,3- Tetramethyl- butyl)phenyl)-omega- hydroxypoly(oxy-1,2- ethanediyl)	No data availa- ble	9002-93-1	>= 60 - < 80 *





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l	Deltamethrin (ISO)	No data availa- ble	52918-63-5	>= 1 - < 5 *
	Actual concentration o	r concentration	ange is withheld	as a trade secret
SEC	TION 4. FIRST AID ME	ASURES		
(General advice	advic	e immediately. n symptoms persi	or if you feel unwell, seek medical st or in all cases of doubt seek medical
I	f inhaled		aled, remove to fr	esh air.
	n case of skin contact	: In cas of wa Remo Get n Wash Thore	ter. bye contaminated nedical attention. n clothing before r bughly clean shoe	es before reuse.
	n case of eye contact	for at If eas	least 15 minutes.	contact lens, if worn.
I	f swallowed	: If swa Get n Rinse	allowed, DO NOT nedical attention. a mouth thorough	induce vomiting.
(Most important symptor and effects, both acute delayed	ns : Harm and May Caus Susp unbo Caus expos Caus expos This Pyret or org	If ul if swallowed. cause an allergic es serious eye da ected of damagin rn child. es damage to org sure if swallowed. es damage to org sure if inhaled. product contains a hroid poisoning s ganophosphate po	skin reaction. amage. g fertility. Suspected of damaging the gans through prolonged or repeated gans through prolonged or repeated a pyrethroid. hould not be confused with carbamate pisoning.
I	Protection of first-aiders	and u	ise the recommer	nould pay attention to self-protection, nded personal protective equipment exposure exists (see section 8).
	Notes to physician			and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire	:	Exposure to combustion products may be a hazard to health.



according to the Hazardous Products Regulations

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Н	ghting azardous combustion prod- cts	:	Carbon oxides Nitrogen oxides (I Bromine compour	,
	pecific extinguishing meth- ds	:	cumstances and t Use water spray t Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	pecial protective equipment or fire-fighters	:		e, wear self-contained breathing apparatus. ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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 CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling.





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		practice, based assessment Keep container Do not eat, drin	rdance with good industrial hygiene and safety I on the results of the workplace exposure tightly closed. Ik or smoke when using this product. event spills, waste and minimize release to the		
Conditions for safe storage		: Keep in properly labeled containers. Store locked up. Keep tightly closed.			
Materials to avoid		 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases 			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
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 equipmen	t
Respiratory protection:Filter type:Hand protection	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type
Material :	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,





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Skin	and body protection	Wear a faceshi potential for dir aerosols. : Work uniform o Additional body task being perfo disposable suit	Is, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or r laboratory coat. garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, s) to avoid exposed skin surfaces. e degowning techniques to remove potentially lothing
Hygie	ene measures	: If exposure to c eye flushing sys working place. When using do Contaminated v workplace. Wash contamin The effective of engineering con appropriate deg	chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne 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)	:	Not applicable No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit	:	No data available

according to the Hazardous Products Regulations



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Vapor	pressure	:	No data available	9
Relativ	ve vapor density	:	No data available)
Relativ	ve density	:	No data available)
Densit	у	:	No data available)
	lity(ies) ter solubility	:	No data available	
	on coefficient: n- I/water	:	No data available	9
	nition temperature	:	No data available	9
Decon	nposition temperature	:	No data available)
Viscos Vis	ity cosity, kinematic	:	No data available)
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.
Molecu	ular weight	:	Not applicable	
Particl	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

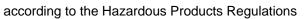
Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Harmful if swallowed.

Product:





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Acute	e 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>Com</u>	ponents:			
Alpha	a-(4-(1,1,3,3-Tetrameth	ylbı	ıtyl)phenyl)-omeg	a-hydroxypoly(oxy-1,2-ethanediyl)
Acute	e oral toxicity	:	LD50 (Rat): 1,900 Remarks: Based) - 5,000 mg/kg on data from similar materials
Acute	e dermal toxicity	:		3,000 mg/kg on data from similar materials
Delta	methrin (ISO):			
Acute	e oral toxicity	:	LD50 (Rat): 66.7	mg/kg
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 19	9 - 34 mg/kg
Acute	e inhalation toxicity	:		
			Exposure time: 2 Test atmosphere:	
Acute	e dermal toxicity	:	LD50 (Rabbit): 2,	000 mg/kg
			LD50 (Rat): > 800) mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 2.5 m Application Route	
			LD50 (Mouse): 10 Application Route	

Not classified based on available information.

Components:

Alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):			
Result	:	No skin irritation	

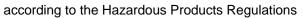
Deltamethrin (ISO):

Species	:	Rabbit
Result	:	No skin irritation





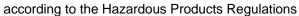
ersion .12	Revision Date: 11/03/2023	SDS Number: 1559904-00018	Date of last issue: 09/30/2023 Date of first issue: 04/25/2017
	us eye damage/eye i es serious eye damag		
Comp	ponents:		
Alpha	a-(4-(1,1,3,3-Tetrame	thylbutyl)phenyl)-om	ega-hydroxypoly(oxy-1,2-ethanediyl)
Resul	t	: Irreversible effe	ects on the eye
Delta	methrin (ISO):		
Speci Resul		: Rabbit : Moderate eye i	rritation
Resp	iratory or skin sensi	tization	
-	sensitization ause an allergic skin	reaction.	
•	iratory sensitization assified based on ava	ilable information.	
Comp	oonents:		
Test 7	es of exposure	: Maximization T : Dermal : Guinea pig : negative	est
Test 1 Route Speci Resul	es of exposure	: Human repeat : Dermal : Humans : positive	insult patch test (HRIPT)
	assified based on ava	ilable information.	
Comp	oonents:		
	methrin (ISO): toxicity in vitro	: Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) e
		Test Type: DN/ Test system: E Result: negativ	scherichia coli
			romosomal aberration chinese hamster ovary cells re
		Test system: C	itro mammalian cell gene mutation test chinese hamster lung cells LOAEL: 20 mg/kg
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		Result: positive	
Geno	toxicity in vivo	: Test Type: Mic Species: Mous Application Rou Result: negativ	e ute: Oral
		Test Type: dom Species: Mouse Application Rou Result: negativ	ute: Oral
		Test Type: siste Species: Mouse Cell type: Bone Application Rou Result: negativ	marrow ute: Oral
	nogenicity lassified based on avail	lable information.	
<u>Com</u>	oonents:		
Speci Applic Expos NOAE LOAE Resu	cation Route sure time EL EL	 Mouse, male at oral (feed) 104 weeks 8 mg/kg body v 4 mg/kg body v positive Lymph nodes 	veight
	cation Route sure time	: Rat, male and f : oral (feed) : 2 Years : negative	emale
	cation Route sure time EL	 Dog, male and oral (feed) 2 Years 1 mg/kg body v negative 	
Suspe	oductive toxicity ected of damaging fertil ponents:	lity. Suspected of dan	naging the unborn child.
	methrin (ISO):		

Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat
		Application Route: oral (feed) Early Embryonic Development: NOAEL: 50 mg/kg body





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rsion 2	Revision Date: 11/03/2023	SDS Number 1559904-000	
		Remarks Test Type Species: Applicatio Early Em weight	s: No effects on fertility., Embryo-fetal toxicity. Significant toxicity observed in testing : Two-generation reproduction toxicity study Rat n Route: Oral oryonic Development: LOAEL: 84 - 149 mg/kg bod s: No effects on fertility., Embryo-fetal toxicity.
		Test Type Species: Applicatic Fertility: L Symptom	: Fertility
Effects	on fetal development	Species: Applicatio Developn Result: S	: Development Mouse n Route: oral (gavage) ental Toxicity: LOAEL: 1 mg/kg body weight eletal malformations. Maternal toxicity observed.
		Species: Developn	: Development Rat, female ental Toxicity: NOAEL: 10 mg/kg body weight s: No effects on fetal development.
		Species: Application Developm	: Development Rabbit, female n Route: oral (gavage) ental Toxicity: NOAEL: 16 mg/kg body weight s: No effects on fetal development.
Reproc	ductive toxicity - As- ent		dence of adverse effects on sexual function and id/or on development, based on animal experimer

Components:

Deltamethrin (ISO):

Assessment

: May cause respiratory irritation.

STOT-repeated exposure

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

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





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<u>Com</u>	oonents:		
Route Targe	methrin (ISO): es of exposure et Organs ssment		system, Immune system e to organs through prolonged or repeated
Targe	es of exposure et Organs ssment	 inhalation (dust/ Central nervous Causes damage exposure. 	
Repe	ated dose toxicity		
Com	oonents:		
Speci NOAE LOAE Applic Expos	EL EL sure time organs	: Rat, male and fe : 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous system : hyperexcitability	1
	EL cation Route sure time	: Rat : 3 mg/m3 : inhalation (dust/ : 2 wk / 5 d/wk / 6 : Local irritation, r	
Expos	EL EL cation Route sure time et Organs	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous system : Dilatation of the	n pupil, Vomiting, Tremors, Diarrhea, Salivatior
Expos	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system	1
Expos	L cation Route sure time tt Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune system : immune system	





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/ersion 5.12	Revision Date: 11/03/2023		S Number: 59904-00018	Date of last issue: 09/30/2023 Date of first issue: 04/25/2017
•	ration toxicity lassified based on av	vailable	nformation.	
Expe	rience with human	exposu	re	
Com	ponents:			
Delta	methrin (ISO):			
Inhala	ation	:	Headache, Na	spiratory tract irritation, Dizziness, Sweating, usea, Vomiting, anorexia, Fatigue, tingling, urred vision, muscle twitching
Skin o	contact	:	Symptoms: Sk sea, Vomiting,	in irritation, Erythema, pruritis, Headache, Nau- Dizziness, tingling, Sweating, muscle twitching, Fatigue, anorexia, Allergic reactions
Inges	tion	:		iscle pain, Small pupils

Ecotoxicity

Components:

Alpha-(4-(1,1,3,3-Tetramethy	ylb ı	utyl)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
		Remarks. Dased on data nom 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



according to the Hazardous Products Regulations

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				2 h Test Guideline 201 icity at the limit of solubility.
Toxicity icity)	y 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
	y to daphnia and other invertebrates (Chron- ity)	•	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.0041 μg/l 1 d
Persist	tence and degradabili	ity		
Compo	onents:			
-	(4-(1,1,3,3-Tetramethy radability	/lbu :	Biodegradation: Exposure time: 2	
			Result: Not readil Biodegradation: Exposure time: 24 Method: Closed B	36 % 8 d
Deltam	nethrin (ISO):			
	y in water	:	Hydrolysis: 0 %(3	30 d)
Bioacc	umulative potential			
Compo	onents:			
Alpha-	(4-(1,1,3,3-Tetramethy	lbι	ıtyl)phenyl)-omeg	ja-hydroxypoly(oxy-1,2-ethanediyl):
Partitio octanol	n coefficient: n- I/water	:	log Pow: 2.7	
Deltam	nethrin (ISO):			
Bioacci	umulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
Partitio octanol	n coefficient: n- I/water	:	log Pow: 4.6	
Mobilit	y in soil			
Compo	onents:			
	nethrin (ISO): ution among environ-	:	log Koc: 7.2	

according to the Hazardous Products Regulations



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menta	I compartments			
Other	adverse effects			
	ta available			
	13. DISPOSAL CONSI	DER	ATIONS	
Dispo	sal methods			
Waste	e from residues	:		of waste into sewer. ccordance with local regulations.
Conta	minated packaging	:	 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	
ECTION	14. TRANSPORT INFO	DRM	ATION	
Intern	ational Regulations			
UNRT	DG			
UN nu		:	UN 3082	
Prope	r shipping name	:	N.O.S. (deltamethrin (TALLY HAZARDOUS SUBSTANCE, LIQUID ISO), Alpha-(4-(1,1,3,3- /I)phenyl)-omega-hydroxypoly(oxy-1,2-
Class		:	9	
	ng group	:	III	
Labels		:	9	
Envirc	onmentally hazardous	:	yes	
IATA-	DGR			
UN/ID		:	UN 3082	
	r shipping name	:	(Deltamethrin (/ hazardous substance, liquid, n.o.s. ISO), Alpha-(4-(1,1,3,3- /l)phenyl)-omega-hydroxypoly(oxy-1,2-
Class		:	9	
Packir Labels	ng group	:	III Miscellaneous	
	ng instruction (cargo	:	964	
Packir ger aii	ng instruction (passen-	:	964	
	onmentally hazardous	:	yes	
IMDG	-Code			
UN nu		:	UN 3082	
Prope	r shipping name	:		TALLY HAZARDOUS SUBSTANCE, LIQUID
				SO), Alpha-(4-(1,1,3,3- /l)phenyl)-omega-hydroxypoly(oxy-1,2-
Class		:	9	



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	s Code e pollutant	: 9 : F-A, S-F : yes	
	sport in bulk according policable for product a	-	ARPOL 73/78 and the IBC Code
Dom	estic regulation		
	umber er shipping name	N.O.S. (Deltamethrir Tetramethylb	NTALLY HAZARDOUS SUBSTANCE, LIQUID, n (ISO), Alpha-(4-(1,1,3,3- utyl)phenyl)-omega-hydroxypoly(oxy-1,2-
Label ERG	ng group		hrin (ISO), Alpha-(4-(1,1,3,3- utyl)phenyl)-omega-hydroxypoly(oxy-1,2-

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

The ingredients of this product are reported in the following inventories:					
AICS	: not determined				
DSL	: not determined				
IECSC	: not determined				

SECTION 16. OTHER INFORMATION

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



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3.12	11/03/2023	1559904-00018	Date of first issue: 04/25/2017

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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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