



Deltamethrin Pour-On Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 10/20/2023
3.1	11/03/2023	657080-00021	Date of first issue: 05/02/2016

SECTION 1. IDENTIFICATION

Product name	:	Deltamethrin Pour-On 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 accordance with the Hazardous Products Regulations					
Skin sensitization	:	Sub-category 1A			
Reproductive toxicity	:	Category 2			
GHS label elements					
Hazard pictograms	:				
Signal Word	:	Warning			
Hazard Statements	:	H317 May cause an allergic skin reaction. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.			
Precautionary Statements	:	Prevention:			
		 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing mist or vapors. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, protective clothing, eye protection and face protection. 			
		Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P308 + P313 IF exposed or concerned: Get medical attention. P333 + P313 If skin irritation or rash occurs: Get medical atten-			

according to the Hazardous Products Regulations



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tion.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

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

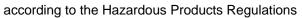
Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Propylene glycol	1,2-Propanediol	57-55-6	>= 10 - < 30 *
Deltamethrin (ISO)	No data availa- ble	52918-63-5	>= 0.1 - < 1 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	
Most important symptoms and effects, both acute and delayed	:	





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Prote	ction of first-aiders	:	and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Notes	Notes to physician			natically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	IRES	
Suital	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical	
Unsu media	itable extinguishing	:	None known.	
Speci fightir	fic hazards during fire	:	Exposure to co	ombustion products may be a hazard to health.
	rdous combustion prod-	:	Carbon oxides	
Speci ods	fic extinguishing meth-	:	cumstances an Use water spra	ning measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to de
	al protective equipment e-fighters	:	In the event of	fire, wear self-contained breathing apparatus. protective 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.





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SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation Advice on safe handling	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the
Conditions for safe storage	environment. : Keep in properly labeled containers.
Conditions for sale storage	Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

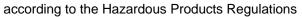
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m³	CA ON OEL
		TWA (aero- sol)	10 mg/m ³	CA ON OEL
Deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further inform	ation: DSEN, Sk	in	
		Wipe limit	100 µg/100 cm ²	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.

Personal protective equipment

Respiratory protection : If

If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the





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Filter type Hand protection			recommended guidelines, use respiratory protection. Particulates type			
Ma	aterial	stant gloves				
	marks rotection	 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditio 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 a	and body protection	: Work uniform Additional bod task being per disposable su	or laboratory coat. ly garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, its) to avoid exposed skin surfaces. te degowning techniques to remove potentially clothing.			
Hygie	lygiene measures : If exposure to c eye flushing sys working place. When using do Contaminated v workplace. Wash contamin The effective op engineering con appropriate deg industrial hygie		chemical is likely during typical use, provide ystems and safety showers close to the			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution, suspension
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
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

according to the Hazardous Products Regulations

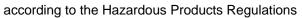


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	Flamma	ability (liquids)	:	No data available)	
	Upper explosion limit / Upper flammability limit		:	No data available		
	Lower explosion limit / Lower flammability limit		:	No data available		
	Vapor p	pressure	:	No data available	9	
	Relative	e vapor density	:	No data available	9	
	Relative	e density	:	No data available	9	
	Density		:	No data available	9	
	Solubilit Wate	ty(ies) er solubility	:	completely miscil	ble	
		n coefficient: n-	:	No data available)	
	octanol/ Autoign	ition temperature	:	No data available)	
	Decom	position temperature	:	No data available)	
	Viscosit Visc	ty osity, kinematic	:	No data available)	
	Explosi	ve properties	:	Not explosive		
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.	
	Molecul	lar weight	:	Not applicable		
	Particle	size	:	Not applicable		

SECTION 10. STABILITY AND REACTIVITY

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



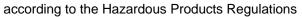


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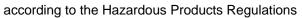
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact							
Ingestion Eye contact							
Acute toxicity							
Not classified based on availal	ole	information.					
Product:							
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method					
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method					
Components:							
Propylene glycol:							
Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg					
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist					
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity					
Deltamethrin (ISO):							
Acute oral toxicity	:	LD50 (Rat): 66.7 mg/kg					
		LD50 (Rat): 9 - 139 mg/kg					
		LD50 (Mouse): 19 - 34 mg/kg					
Acute inhalation toxicity	:	LC50 (Rat): 0.8 mg/l Exposure time: 2 h Test atmosphere: dust/mist					
Acute dermal toxicity	:	LD50 (Rabbit): 2,000 mg/kg					
		LD50 (Rat): > 800 mg/kg					
Acute toxicity (other routes of administration)	:	LD50 (Rat): 2.5 mg/kg Application Route: Intravenous					
		LD50 (Mouse): 10 mg/kg					



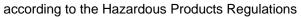


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			Application Ro	oute: Intraperitoneal
-	corrosion/irritation	ailabla	information	
	ponents:	allable		
	ylene glycol:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test G No skin irritati	
Resu	int.	•	NO SKIN IMIAU	ווכ
Delta	amethrin (ISO):			
Spec		:	Rabbit	
Resu	lit	:	No skin irritati	DN
Serio	ous eye damage/eye	irritati	on	
Not c	lassified based on av	ailable	information.	
<u>Com</u>	ponents:			
Prop	ylene glycol:			
Spec		:	Rabbit	
Resu Meth		:	No eye irritatio OECD Test G	
	amethrin (ISO):			
Spec Resu		:	Rabbit Moderate eye	irritotion
				intation
-	biratory or skin sens	itizatio	n	
-	sensitization			
•	cause an allergic skin		on.	
•	biratory sensitization classified based on av		information	
	ponents:	anabio		
	ylene glycol:			
Test			Maximization	Test
Route	es of exposure	:	Skin contact	
Spec Resu		:	Guinea pig negative	
Delta	amethrin (ISO):			
Test		:	Maximization	Test
Route	es of exposure	:	Dermal	
Spec Resu		:	Guinea pig negative	
		•		





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	Test Ty Routes Species Result	of exposure	:	Human repeat ins Dermal Humans positive	ult patch test (HRIPT)
		ell mutagenicity ssified based on availa	ıble	information.	
	Compo	onents:			
		ene glycol: xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Chrom Method: OECD Te Result: negative	osome aberration test in vitro est Guideline 473
	Genoto	xicity in vivo	:	cytogenetic assay Species: Mouse	alian erythrocyte micronucleus test (in vivo) : Intraperitoneal injection
	Deltam	ethrin (ISO):			
		xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: DNA R Test system: Esch Result: negative	
					osomal aberration ese hamster ovary cells
					mammalian cell gene mutation test ese hamster lung cells DAEL: 20 mg/kg
	Genoto	xicity in vivo	:	Test Type: Micron Species: Mouse Application Route Result: negative	
				Test Type: domina Species: Mouse Application Route Result: negative	
				Test Type: sister of	chromatid exchange assay





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		Species: Mous Cell type: Bon Application Ro	e marrow

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Propylene glycol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Deltamethrin (ISO):

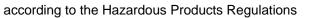
Species Application Route Exposure time NOAEL LOAEL Result Target Organs		Mouse, male and female oral (feed) 104 weeks 8 mg/kg body weight 4 mg/kg body weight positive Lymph nodes
Species Application Route Exposure time Result	: :	Rat, male and female oral (feed) 2 Years negative
Species Application Route Exposure time NOAEL Result		Dog, male and female oral (feed) 2 Years 1 mg/kg body weight negative

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

Propylene glycol:		
Effects on fertility :	S	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative
Effects on fetal development :	S	Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative



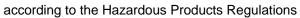


rsion	Revision Date: 11/03/2023	-	9S Number: 7080-00021	Date of last issue: 10/20/2023 Date of first issue: 05/02/2016
Delta	methrin (ISO):			
Effects on fertility		:	Species: Rat Application Rout Early Embryonic weight Symptoms: No e	e-generation reproduction toxicity study e: oral (feed) e Development: NOAEL: 50 mg/kg body effects on fertility., Embryo-fetal toxicity. icant toxicity observed in testing
			Species: Rat Application Rout Early Embryonic weight	generation reproduction toxicity study e: Oral Development: LOAEL: 84 - 149 mg/kg body effects on fertility., Embryo-fetal toxicity.
			Test Type: Fertil Species: Rat, ma Application Rout	ity ale e: Oral 1 mg/kg body weight cts on fertility.
Effect	s on fetal development	:	Result: Skeletal	e: oral (gavage) Foxicity: LOAEL: 1 mg/kg body weight
				female
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and n development, based on animal experimen
STOT	-single exposure			
Not cl	assified based on availa	able	information.	
<u>Comp</u>	oonents:			
Delta	methrin (ISO):			
A	a ma a mt		N4	

according to the Hazardous Products Regulations



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	-repeated exposure		
Not cla	assified based on av	ailable information.	
Comp	onents:		
Deltar	nethrin (ISO):		
	s of exposure	: Ingestion	
	t Organs sment		us system, Immune system ge to organs through prolonged or repeated
A5565	Sment	exposure.	ge to organs through proionged of repeated
	s of exposure	: inhalation (due	
	t Organs	: Central nervou	
Asses	sment	exposure.	ge to organs through prolonged or repeated
Repea	ated dose toxicity		
Comp	onents:		
Propy	lene glycol:		
Specie		: Rat, male	
NOAE		: >= 1,700 mg/k : Ingestion	g
	ation Route sure time	: 2 y	
Deltar	nethrin (ISO):		
Specie		: Rat, male and	female
NOAE LOAE		: 1 mg/kg	
	L ation Route	: 2.5 mg/kg : Oral	
	sure time	: 13 Weeks	
	t Organs	: Nervous syste	
Symp	toms	: hyperexcitabili	ty
Specie		: Rat	
LOAE		: 3 mg/m3	
	ation Route sure time	: inhalation (dus : 2 wk / 5 d/wk /	
Sympt			, respiratory tract irritation
Specie		: Dog	
NOAE LOAE		: 0.1 mg/kg : 1 mg/kg	
	∟ ation Route	: Oral	
Expos	sure time	: 13 Weeks	
	t Organs	: Nervous syste	
Symp	IOMS	: Dilatation of th	e pupil, Vomiting, Tremors, Diarrhea, Salivatio
Specie		: Rat	
NOAE		: 14 mg/kg : 54 mg/kg	
LOAE			





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E ve e	ourse times		01 4	
	sure time et Organs	÷	91 d Nervous system	
. s. ge		•		
Speci		:	Mouse	
	cation Route	÷	6 mg/kg Oral	
	sure time	÷	12 Weeks	
Targe	et Organs	:	Immune system	
Symp	otoms	:	immune system e	effects
Aspir	ation toxicity			
Not c	lassified based on availa	able	information.	
Expe	rience with human exp	osi	ure	
Com	oonents:			
Delta	methrin (ISO):			
Inhala	ation	:	Headache, Nause	ratory tract irritation, Dizziness, Sweating, ea, Vomiting, anorexia, Fatigue, tingling, ed vision, muscle twitching
Skin contact		:	Symptoms: Skin i sea, Vomiting, Di	irritation, Erythema, pruritis, Headache, Nau- zziness, tingling, Sweating, muscle twitching atigue, anorexia, Allergic reactions
Inges	tion	:		ele pain, Small pupils
ECTION	12. ECOLOGICAL INFO	ORI	MATION	
Ecot	oxicity			
	ponents:			
	ylene glycol:			
Toxic	ity to fish	:	LC50 (Oncorhynd Exposure time: 9	chus mykiss (rainbow trout)): 40,613 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 4	nnia dubia (water flea)): 18,340 mg/l 8 h
Toxic	ity to algae/aquatic	:	ErC50 (Skeletone	ema costatum (marine diatom)): 19,300 mg/l

		Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l Exposure time: 7 d

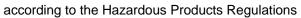
Exposure time: 72 h

Toxicity to microorganisms : NOEC (Pseudomo	onas putida): > 20,000 mg/l
Exposure time: 18	} h

Deltamethrin (ISO):

plants

Toxicity to fish	: LC50 (Cyprinodon variegatus (sheepshead minnow)): 0.00048
	mg/l Expegure time: 06 h
	Exposure time: 96 h





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			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.00039 mg/l } h
	to daphnia and other invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0.0037 µg/l 3 h
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0035 mg/l h
			LC50 (Gammarus Exposure time: 96	fasciatus (freshwater shrimp)): 0.0003 μg/ δ h
Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	chneriella subcapitata (green algae)): > 9.1 ? h est Guideline 201 city at the limit of solubility.
Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 36	es promelas (fathead minnow)): 0.000022 6 d
			NOEC (Pimephale mg/l Exposure time: 26	es promelas (fathead minnow)): 0.000017 60 d
	to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.0041 µg/l d
Persist	ence and degradabili	ity		
<u>Compo</u>	onents:			
	ene glycol: adability	:	Result: Readily bio Biodegradation: 9 Exposure time: 28 Method: OECD Te	98.3 %
	ethrin (ISO): / in water	:	Hydrolysis: 0 %(3	0 d)
Bioacc	umulative potential			
<u>Compo</u>	nents:			
	ene glycol: n coefficient: n- /water	:	log Pow: -1.07 Method: Regulatio	on (EC) No. 440/2008, Annex, A.8
Deltam	ethrin (ISO):			

Deltamethrin (ISO):



according to the Hazardous Products Regulations

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Bioad	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
	ion coefficient: n- ol/water	:	log Pow: 4.6	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Distri	methrin (ISO): bution among environ- al compartments	:	log Koc: 7.2	
	r adverse effects ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class		(deltamethrin (ISO)) 9
Packing group	:	а Ш
Labels	÷	9
Environmentally hazardous	÷	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	÷	Environmentally hazardous substance, liquid, n.o.s.
· · • • • • • • • • • • • • • • • • • •	•	(Deltamethrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082





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Proper shipping name		N.O.S.	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin (ISO))		
•	ass	: 9			
	cking group bels	: III : 9			
	nS Code	: F-A, S-F			
Ma	arine pollutant	: yes			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					
No	t applicable for product as	s supplied.			
Do	mestic regulation				
TD	G				
UN	l number	: UN 3082			
Pro	oper shipping name	: ENVIRONME N.O.S. (Deltamethri	ENTALLY HAZARDOUS SUBSTANCE, LIQUID,		
•	ass	: 9			
	cking group	:			
	bels RG Code	: 9 : 171			
	arine pollutant	: yes(Deltame	thrin (ISO))		
ivic		. yoo(Donamo			

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

CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under
		the Occupational Health and Safety Act.
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

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;



Deltamethrin Pour-On Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 10/20/2023
3.1	11/03/2023	657080-00021	Date of first issue: 05/02/2016

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

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 Agen- cy, http://echa.europa.eu/
Revision Date Date format	-	11/03/2023 mm/dd/yyyy

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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