



Vers 3.7	ion	Revision Date: 13.09.2024		S Number: 6108-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
	TION 1 Product	IDENTIFICATION	:	Deltamethrin (2.5	%) Formulation
	Manufa	cturer or supplier's o	detai	ls	
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
	Addres	5	:	91-105 Harpin St Bendigo 3550, V	
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	r:	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com
	Recom	mended use of the cl	hem	ical and restrictio	ons on use
		mended use ions on use	:	Veterinary produce Not applicable	ct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 3
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 1B
Carcinogenicity	:	Category 1B
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 2 (Central nervous system)



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Aspir	ration hazard	: Category 1	
GHS	label elements		
Haza	ard pictograms		
Signa	al word	: Danger	
Haza	ard statements	H304 May be H315 Causes H317 May cau H318 Causes H336 May cau H340 May cau H350 May cau H361 Suspect H373 May cau Immune syste swallowed. H373 May cau	ise an allergic skin reaction. serious eye damage. ise drowsiness or dizziness. ise genetic defects.
Preca	autionary statements	P202 Do not h and understoo P210 Keep aw and other ignit P233 Keep co P241 Use exp ment. P242 Use non P243 Take ac P260 Do not b P264 Wash sk P271 Use only P272 Contami the workplace	 vay from heat, hot surfaces, sparks, open flames ion sources. No smoking. ntainer tightly closed. losion-proof electrical/ ventilating/ lighting equipsparking tools. tion to prevent static discharges. treathe mist or vapours. tin thoroughly after handling. v outdoors or in a well-ventilated area. nated work clothing should not be allowed out of . otective gloves/ protective clothing/ eye protec-
		Response:	
		CENTER/ doc P303 + P361 · ly all contamin P304 + P340 ·	 + P353 IF ON SKIN (or hair): Take off immediate ated clothing. Rinse skin with water. + P312 IF INHALED: Remove person to fresh air fortable for breathing. Call a POISON CENTER/



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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

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

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). Vapours may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 30 -< 60
Cottonseed oil	8001-29-4	>= 30 -< 60
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Not Assigned	>= 3 -< 10
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 3 -< 10
deltamethrin (ISO)	52918-63-5	>= 1 -< 3
2,6-Di-tert-butyl-p-cresol	128-37-0	< 10

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 plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 	

SAFETY DATA SHEET



Deltamethrin (2.5%) Formulation

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In cas	se of eye contact	for at least 15 r If easy to do, re	move contact lens, if worn.		
If swallowed		: If swallowed, D If vomiting occu Call a physiciar Rinse mouth th	Get medical attention immediately. If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.		
	important symptoms ffects, both acute and ed	: May be fatal if s Causes skin irri May cause an a Causes serious May cause drow May cause drow May cause gen May cause can Suspected of d May cause dan exposure if swa May cause dan exposure if inha This product co Pyrethroid pois	swallowed and enters airways. tation. allergic skin reaction. s eye damage. wsiness or dizziness. etic defects. cer. amaging fertility or the unborn child. hage to organs through prolonged or repeated illowed. hage to organs through prolonged or repeated		
Protec	ction of first-aiders	: First Aid respon and use the rec	inders should pay attention to self-protection, commended personal protective equipment tial for exposure exists (see section 8).		
Notes	to physician		atically and supportively.		

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. 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) Bromine compounds Sulphur oxides Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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	cial protective equipment refighters	:	Remove undama so. Evacuate area. In the event of fire	to cool unopened containers. ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. tective equipment.
	chem Code	:	3Y	
SECTION	I 6. ACCIDENTAL RELE	AS	E MEASURES	
tive	onal precautions, protec- equipment and emer- cy procedures	:	Follow safe hand	es of ignition. tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
Envi	ronmental precautions	:	Prevent spreading barriers). Retain and dispos	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
	nods and materials for ainment and cleaning up	:	Soak up with iner Suppress (knock spray jet. For large spills, p ment to keep mat be pumped, store Clean up remainin bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	Is should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- erial from spreading. If dyked material can a recovered material in appropriate container. In g materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding attional 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 exventilation.	haust
	Use explosion-proof electrical, ventilating and lighting ment.	equip-
Advice on safe handling	: Do not get on skin or clothing.	



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Hygie	ene measures	 Do not swallow Do not get in ey Wash skin thor Handle in acco practice, based sessment Non-sparking to Keep container Keep away fror other ignition so Take precautio Do not eat, drin Take care to pr environment. If exposure to o flushing system place. When using do Contaminated o workplace. Wash contamin The effective o engineering con appropriate deg 	yes. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as- bols should be used. tightly closed. In heat, hot surfaces, sparks, open flames and burces. No smoking. Inary measures against static discharges. Ik or smoke when using this product. event spills, waste and minimize release to the chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. work 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
Cond	itions for safe storage	: Keep in proper Store locked up Keep tightly clo Keep in a cool, Store in accord	y labelled containers.
Mater	rials to avoid	: Do not store wi Self-reactive su Organic peroxid Oxidizing agen Flammable gas Pyrophoric liqu Pyrophoric solid	th the following product types: abstances and mixtures des ts ses ids ds bstances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum),	64742-95-6	TWA	900 mg/m3	AU OEL



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light aromatic				
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
Cottonseed oil	8001-29-4	TWA (Mist)	10 mg/m3	AU OEL
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further information: DSEN, Skin			
		Wipe limit	100 µg/100 cm ²	Internal
2,6-Di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m3	AU OEL
		TWA (Inhal-	2 mg/m3	ACGIH
		able fraction		
		and vapor)		

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.
		Use explosion-proof electrical, ventilating and lighting equip- ment.
Personal protective equipme	nt	
Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks Eye protection Skin and body protection	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.





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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES						
Appearance	:	liquid				
Colour	:	yellow				
Odour	:	No data available				
Odour Threshold	:	No data available				
рН	:	4 - 5				
Melting point/freezing point	:	< -5 °C				
Initial boiling point and boiling range	:	No data available				
Flash point	:	40 °C				
Evaporation rate	:	No data available				
Flammability (solid, gas)	:	Not applicable				
Flammability (liquids)	:	Not applicable				
Upper explosion limit / Upper flammability limit	:	No data available				
Lower explosion limit / Lower flammability limit	:	No data available				
Vapour pressure	:	No data available				
Relative vapour density	:	No data available				
Relative density	:	No data available				
Density	:	0.909 - 0.927 g/cm3 (20 °C)				
Solubility(ies) Water solubility	:	partly miscible				
Partition coefficient: n- octanol/water	:	Not applicable				
Auto-ignition temperature	:	No data available				
Decomposition temperature	:	No data available				
Viscosity Viscosity, kinematic	:	No data available				

SAFETY DATA SHEET



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Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance	or mixture is not classified as oxidizing.
Molec	cular weight	:	No data availa	ble
	le characteristics le size	:	Not applicable	
	10. STABILITY AND R	EAC	ΤΙVITY	
	tivity hical stability bility of hazardous reac-		Stable under n Flammable liqu Vapours may f	as a reactivity hazard. ormal conditions. uid and vapour. orm explosive mixture with air. strong oxidizing agents.
Incom	itions to avoid npatible materials rdous decomposition cts	:	Heat, flames a Oxidizing ager No hazardous	
ECTION	11. TOXICOLOGICAL	INFC	RMATION	
Expos	sure routes	:	: Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on availa	able i	nformation.	
Produ	uct:			
Acute	oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	
<u>Com</u>	oonents:			
Solve	ent naphtha (petroleum	ı), li <u>ç</u>	ght aromatic:	
	oral toxicity		LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphere	4 h



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Cotto	nseed oil:				
Acute	oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg	
Benze	enesulfonic acid, C10-1	3-a	lkyl derivs., ca	cium salts:	
Acute	oral toxicity	:	LD50 (Rat): 4,4	45 mg/kg	
Acute	dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials		
4-Non	ylphenol, branched, e	tho	xylated:		
Acute	oral toxicity	:	LD50 (Rat): > 2	2,000 mg/kg	
deltar	nethrin (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 Exposure time: Test atmosphe	2 h	
Acute	dermal toxicity	:	LD50 (Rabbit):	2,000 mg/kg	
			LD50 (Rat): > 8	300 mg/kg	
	toxicity (other routes of istration)	:		i mg/kg ute: Intravenous	
			LD50 (Mouse): Application Rot	10 mg/kg ute: Intraperitoneal	
2,6-Di	-tert-butyl-p-cresol:				
Acute	oral toxicity	:	LD50 (Rat): > 6 Method: OECD	6,000 mg/kg Test Guideline 401	
Acute dermal toxicity :				2,000 mg/kg Test Guideline 402 he substance or mixture has no acute der	

Skin corrosion/irritation

Causes skin irritation.



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•			
Comp	oonents:		
Solve	nt naphtha (petrole	um), light aromatic:	
Specie	es	: Rabbit	
Metho	bd	: OECD Test Gu	ideline 404
Resul	t	: Skin irritation	
Benze	enesulfonic acid, C ²	10-13-alkyl derivs., ca	Icium salts:
Specie	es	: Rabbit	
Metho		: OECD Test Gu	ideline 404
Resul	t	: Skin irritation	
4-Nor	ylphenol, branched	l, ethoxylated:	
Specie		: Rabbit	
Metho		: OECD Test Gu	
Resul	-	: No skin irritatio	
Rema	rks	: Based on data	from similar materials
deltar	methrin (ISO):		
Specie		: Rabbit	
Resul	t	: No skin irritatio	n
2,6-Di	-tert-butyl-p-cresol	:	
Specie	es	: Rabbit	
Metho		: OECD Test Gu	ideline 404
Resul	t	: No skin irritatio	n
Rema	rks	: Based on data	from similar materials
Serio	us eye damage/eye	irritation	
Cause	es serious eye dama	ge.	
Comp	oonents:		
	• •	um), light aromatic:	
Specie Resul		: Rabbit : No eye irritation	n
Metho		: OECD Test Gu	
Benze	enesulfonic acid. C	10-13-alkyl derivs., ca	lcium salts:
Specie		: Rabbit	internet outfor
Resul		: Irreversible effe	ects on the eve
Metho		: OECD Test Gu	
4-Nor	ylphenol, branched	d. ethoxylated:	
Specie		: Rabbit	
		: No eye irritation	n
Resul	L		



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Rema	arks	:	Based on data f	rom similar materials
	methrin (ISO):			
Speci Resu		:	Rabbit Moderate eye ir	ritation
2,6-D	i-tert-butyl-p-cresol:	1		
Speci	es	:	Rabbit	
Resu		:	No eye irritation	
Metho		:	OECD Test Gui	
Rema	arks	:	Based on data f	rom similar materials
Resp	iratory or skin sensi	itisatio	on	
	sensitisation			
May o	ause an allergic skin	reaction	on.	
Resp	iratory sensitisation	1		
•	lassified based on ava		information.	
<u>Com</u>	oonents:			
Solve	ent naphtha (petrole	um), li	ght aromatic:	
Test 7	Гуре	:	Buehler Test	
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Resu	IT	:	negative	
Cotto	onseed oil:			
Test 7	Гуре	:	Human repeat in	nsult patch test (HRIPT)
Expos	sure routes	:	Skin contact	
Resu		:	negative	
Rema	arks	:	Based on data f	rom similar materials
Benz	enesulfonic acid, C1	0-13- a	alkyl derivs., calo	cium salts:
Test ⁻		:	Magnusson-Klig	gman-Test
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Metho Rema			OECD Test Gui Based on data f	deline 406 from similar materials
	nylphenol, branched	l, etho	•	
Test		:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci Resu		•	Guinea pig negative	
Rema		:		rom similar materials
-				



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Test Expo Spec Resu Test	sure routes ties llt Type sure routes ties	: Maximisatior : Dermal : Guinea pig : negative : Human repe : Dermal : Humans : positive	n Test at insult patch test (HRIPT)
Test		: Human repe : Skin contact : Humans : negative	at insult patch test (HRIPT)
Gern May	nic toxicity n cell mutagenicity cause genetic defects. <u>ponents:</u>		
	ent naphtha (petroleu otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive n vitro mammalian cell gene mutation test
Geno	otoxicity in vivo	gonia Species: Mo	Route: Intraperitoneal injection
	n cell mutagenicity - ssment	: Positive resu tests in mam	Ilt(s) from in vivo heritable germ cell mutagenicity mals
	onseed oil: otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
	zenesulfonic acid, C10 otoxicity in vitro	: Test Type: B Method: Dire Result: nega	acterial reverse mutation assay (AMES) active 67/548/EEC, Annex, B.13/14





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4 14-			
	nylphenol, branched , otoxicity in vitro	-	cterial reverse mutation assay (AMES)
Gene		Method: OECD Result: negativ	Test Guideline 471
			romosome aberration test in vitro) Test Guideline 473 /e
		Remarks: Base	ed on data from similar materials
			ritro mammalian cell gene mutation test) Test Guideline 476
			ed on data from similar materials
delta	methrin (ISO):		
	otoxicity in vitro	: Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) re
		Test Type: DN Test system: E	scherichia coli
		Result: negativ	e
			omosomal aberration Chinese hamster ovary cells re
		Test system: C	ritro mammalian cell gene mutation test Chinese hamster lung cells LOAEL: 20 mg/kg
Genc	otoxicity in vivo	: Test Type: Mic	
		Species: Mous Application Ro Result: negativ	ute: Oral
		Test Type: don Species: Mous Application Ro	
		Result: negativ	'e
		Test Type: sist Species: Mous Cell type: Bone	
		Application Ro Result: negativ	ute: Oral
2,6-D)i-tert-butyl-p-cresol:		
	otoxicity in vitro	: Test Type: Bac	cterial reverse mutation assay (AMES)
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				Result: negative	
				Test Type: In vitr Result: negative	o mammalian cell gene mutation test
				Test Type: Chror Result: negative	mosome aberration test in vitro
C	Genoto	xicity in vivo	:		genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
		ogenicity use cancer.			
<u>c</u>	Compo	onents:			
S	Solven	t naphtha (petroleu	ım), li	ght aromatic:	
S	Species	S		Mouse	
		tion Route	:	Skin contact	
		re time	:	2 Years	
F	Result		:	positive	
	Carcinc nent	ogenicity - Assess-	:	Sufficient eviden	ce of carcinogenicity in animal experiments
d	deltam	ethrin (ISO):			
S	Species	6	:	Mouse, male and	d female
		tion Route	:	oral (feed)	
	•	re time	:	104 weeks	
	NOAEL		:	8 mg/kg body we	
	OAEL		:	4 mg/kg body we	eight
	Result	0	:	positive	
I	larget	Organs	÷	Lymph nodes	
S	Species	3	:	Rat, male and fe	male
		tion Route	:	oral (feed)	
		re time	:	2 Years	
F	Result		:	negative	
S	Species	5	:	Dog, male and fe	emale
		tion Route	:	oral (feed)	
E	Exposu	re time	:	2 Years	
	NOAEL		:	1 mg/kg body we	eight
F	Result		:	negative	
2	2.6-Di-t	ert-butyl-p-cresol:			
	Species			Rat	
		tion Route	•	Ingestion	
		re time	:	22 Months	



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	Result		:	negative				
	-	ductive toxicity cted of damaging fertili	ty o	r the unborn child.				
	Components:							
		t naphtha (petroleum	1), li		duction/Dovelonmental toxisity personing			
	Ellects	on fertility	•	test Species: Rat	duction/Developmental toxicity screening			
	Effects ment	on foetal develop-	:	Species: Rat	vo-foetal development e: inhalation (vapour)			
	4-Nony	/Iphenol, branched, e	etho	xylated:				
	Reproc sessme	luctive toxicity - As- ent	:		f adverse effects on sexual function and development, based on animal experiments.			
	deltam	ethrin (ISO):						
	Effects	on fertility	:	Species: Rat Application Route Early Embryonic weight Symptoms: No ef	-generation reproduction toxicity study e: oral (feed) Development: NOAEL: 50 mg/kg body fects on fertility, Embryo-foetal toxicity ant toxicity observed in testing			
				Species: Rat Application Route Early Embryonic weight	eneration reproduction toxicity study e: 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: Effect Target Organs: T	le e: Oral 1 mg/kg body weight ts on fertility			
	Effects ment	on foetal develop-	:	Test Type: Develor Species: Mouse Application Route Developmental To Result: Skeletal n	e: oral (gavage) oxicity: LOAEL: 1 mg/kg body weight			



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			Remarks: Mate	ernal toxicity observed.
				emale Toxicity: NOAEL: 10 mg/kg body weight
				effects on foetal development
			Developmental	
Repro sessn	oductive toxicity - As- nent	:		e of adverse effects on sexual function and on development, based on animal experimen
2,6-D	i-tert-butyl-p-cresol:			
Effect	ts on fertility	:	Test Type: Two Species: Rat Application Ron Result: negativ	
Effect ment	ts on foetal develop-	:	Test Type: Em Species: Rat Application Rot Result: negativ	
STOT	- single exposure			
	cause drowsiness or di	izzines	SS.	
<u>Com</u>	ponents:			
	ent naphtha (petroleu	ım), lig		
Asses	ssment	:	May cause dro	wsiness or dizziness.
	methrin (ISO):			
Asses	ssment	:	May cause res	piratory irritation.
STOT	- repeated exposure	;		
repea	ited exposure if swallor cause damage to orgai	wed.		vstem, Immune system) through prolonged or vstem) through prolonged or repeated exposu
Com	oonents:			
delta	methrin (ISO):			
Targe	sure routes et Organs ssment	:		s system, Immune system le to organs through prolonged or repeated



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		exposure.							
Expos	sure routes	: inhalation (dus	st/mist/fume)						
Targe	et Organs	: Central nervou	: Central nervous system						
Asses	ssment		ge to organs through prolonged or repeated						
		exposure.							
2,6-D	i-tert-butyl-p-cresol:								
Asses	ssment	: No significant tions of 100 m	health effects observed in animals at concent g/kg bw or less.						
Repe	ated dose toxicity								
<u>Comp</u>	oonents:								
	ent naphtha (petroleu								
Speci		: Rat							
LOAE	cation Route	: 500 mg/kg : Ingestion							
	sure time	: 28 Days							
	nylphenol, branched	· •							
Speci LOAE		: Rat							
	cation Route	: 150 mg/kg : Ingestion							
	sure time	: 90 Days							
Metho		: OPPTS 870.3	100						
Rema	arks	: Based on data	from similar materials						
delta	methrin (ISO):								
delta Speci		: Rat, male and	female						
Speci NOAE	es EL	: 1 mg/kg	female						
Speci NOAE LOAE	es EL EL	: 1 mg/kg : 2.5 mg/kg	female						
Speci NOAE LOAE Applic	es EL EL cation Route	: 1 mg/kg : 2.5 mg/kg : Oral	female						
Speci NOAE LOAE Applic Expos	es EL EL cation Route sure time	: 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks							
Speci NOAE LOAE Applic Expos Targe	es EL EL cation Route sure time ot Organs	: 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous syste	m						
Speci NOAE LOAE Applic Expos	es EL EL cation Route sure time ot Organs	: 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks	m						
Speci NOAE LOAE Applic Expos Targe Symp	es EL EL cation Route sure time of Organs toms	: 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous syste	m						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE	es EL EL cation Route sure time et Organs toms es EL	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 	m ty						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic	es EL EL cation Route sure time et Organs toms es EL cation Route	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dustication) 	m ty st/mist/fume)						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos	es EL EL cation Route sure time et Organs toms es EL cation Route sure time	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / 	m ty st/mist/fume) ' 6 h/d						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic	es EL EL cation Route sure time et Organs toms es EL cation Route sure time	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / 	m ty st/mist/fume)						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Symp	es EL EL cation Route sure time of Organs toms es EL cation Route sure time toms es	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / Local irritation 	m ty st/mist/fume) ' 6 h/d						
Speci NOAE LOAE Applic Expos Symp Speci LOAE Applic Expos Symp Speci NOAE	es EL EL cation Route sure time of Organs toms es EL cation Route sure time toms es EL	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / Local irritation Dog 0.1 mg/kg 	m ty st/mist/fume) ' 6 h/d						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Symp Speci NOAE LOAE	es EL EL cation Route sure time et Organs toms es EL cation Route sure time toms es EL EL	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / Local irritation Dog 0.1 mg/kg 1 mg/kg 	m ty st/mist/fume) ' 6 h/d						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Symp Speci NOAE LOAE	es EL EL cation Route sure time et Organs toms es EL cation Route sure time toms es EL EL cation Route	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / Local irritation Dog 0.1 mg/kg 1 mg/kg Oral 	m ty st/mist/fume) ' 6 h/d						
Speci NOAE LOAE Applic Expos Targe Symp Speci LOAE Applic Expos Symp Speci NOAE LOAE Applic Expos	es EL EL cation Route sure time et Organs toms es EL cation Route sure time toms es EL EL	 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous syste hyperexcitabili Rat 3 mg/m3 inhalation (dus 2 wk / 5 d/wk / Local irritation Dog 0.1 mg/kg 1 mg/kg 	m ty st/mist/fume) 6 h/d , respiratory tract irritation						

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Deltamethrin (2.5%) Formulation

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Symptoms	: Dilatation of the pupil, Vomiting, Tremors, Diarrhoea, Saliva- tion
Species NOAEL LOAEL Application Route Exposure time Target Organs	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system
Species LOAEL Application Route Exposure time Target Organs Symptoms	 Mouse 6 mg/kg Oral 12 Weeks Immune system immune system effects
2,6-Di-tert-butyl-p-creso	I:
Species NOAEL Application Route	: Rat : 25 mg/kg
Exposure time	
Aspiration toxicity May be fatal if swallowed	and enters airways.
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture	and enters airways. is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard.
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture	is known to cause human aspiration toxicity hazards or has to be re-
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture garded as if it causes a h <u>Components:</u> Solvent naphtha (petrol The substance or mixture garded as if it causes a h	is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard. eum), light aromatic: is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard.
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture garded as if it causes a h <u>Components:</u> Solvent naphtha (petrol The substance or mixture	is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard. eum), light aromatic: is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard.
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture garded as if it causes a h <u>Components:</u> Solvent naphtha (petrol The substance or mixture garded as if it causes a h	is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard. eum), light aromatic: is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard.
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture garded as if it causes a h <u>Components:</u> Solvent naphtha (petrol The substance or mixture garded as if it causes a h Experience with human	is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard. eum), light aromatic: is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard.
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture garded as if it causes a h <u>Components:</u> Solvent naphtha (petrol The substance or mixture garded as if it causes a h Experience with human <u>Components:</u>	 is known to cause human aspiration toxicity hazards or has to be reuman aspiration toxicity hazard. eum), light aromatic: is known to cause human aspiration toxicity hazards or has to be reuman aspiration toxicity hazard. exposure Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling,
Aspiration toxicity May be fatal if swallowed <u>Product:</u> The substance or mixture garded as if it causes a h <u>Components:</u> Solvent naphtha (petrol The substance or mixture garded as if it causes a h Experience with human <u>Components:</u> deltamethrin (ISO):	 is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard. eum), light aromatic: is known to cause human aspiration toxicity hazards or has to be re- uman aspiration toxicity hazard. exposure Symptoms: respiratory tract irritation, Dizziness, Sweating,



Deltamethrin (2.5%) Formulation

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity							
Components:							
Solvent naphtha (petroleum), light aromatic:							
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction					
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202					
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201					
		NOELR (Pseudokirchneriella subcapitata (microalgae)): 0.5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201					
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOELR (Daphnia magna (Water flea)): 2.6 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211					
Cottonseed oil:							
Toxicity to fish	:	LC50 : > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials					
Toxicity to daphnia and other aquatic invertebrates	:	LC50: > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials					
Toxicity to algae/aquatic plants	:	EC50: > 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials					
		NOEC: > 10 - 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials					
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC: > 0.1 - 1 mg/l Exposure time: 21 d					



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ic toxi	city)		Remarks: Based	on data from similar materials
	enesulfonic acid, C10- ty to fish		LC50 : > 1 - < 10 Exposure time: 9	mg/l
	ty to daphnia and other c invertebrates	:	Exposure time: 4 Method: OECD T	nagna (Water flea)): > 1 - 10 mg/l 8 h est Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	100 mg/l Exposure time: 9	rchneriella subcapitata (green algae)): > 10 6 h on data from similar materials
			1 mg/l Exposure time: 9	rchneriella subcapitata (green algae)): > 0 6 h on data from similar materials
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 7	nchus mykiss (rainbow trout)): > 0.1 - 1 mg 2 d on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): > 1 mg/l 1 d on data from similar materials
	tylphenol, branched, e ty to fish	tho: :	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): > 0.1 - 1 m 6 h on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	nia dubia (water flea)): > 0.1 - 1 mg/l 8 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	rum capricornutum (green algae)): > 1 - 10 2 h rest Guideline 201 on data from similar materials
			Exposure time: 72 Method: OECD T	um capricornutum (green algae)): > 1 mg/l 2 h est Guideline 201 on data from similar materials
Toxici	ty to fish (Chronic tox-	:	NOEC (Oryzias la	atipes (Japanese medaka)): > 0.1 - 1 mg/l



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T	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Mysidopsi mg/l	on data from similar materials s bahia (opossum shrimp)): > 0.001 - 0.01
i	ic toxici	ty)		Exposure time: 28 Remarks: Based of	d on data from similar materials
	deltam Toxicity	ethrin (ISO): to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0.00048 6 h
				LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.00039 mg/l 3 h
		to daphnia and other invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0.0037 μg/l β h
				EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0035 mg/l 3 h
				LC50 (Gammarus Exposure time: 96	fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 36	es promelas (fathead minnow)): 0.000022 8 d
				NOEC (Pimephale mg/l Exposure time: 26	es promelas (fathead minnow)): 0.000017 60 d
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0041 μg/l d
2	2,6-Di-t	ert-butyl-p-cresol:			
	Toxicity		:	Exposure time: 96	(zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	



rsion	Revision Date: 13.09.2024		0S Number: 56108-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
Toxici [:] plants	ty to algae/aquatic	:	mg/l Exposure time: 7	irchneriella subcapitata (green algae)): > 0.2 2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 0.24 2 h Fest Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3	atipes (Japanese medaka)): 0.053 mg/l 0 d Fest Guideline 210
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.316 mg/l 1 d
	ty to microorganisms	:	Exposure time: 3	
Persis	stence and degradabili	ty		
	stence and degradabili ponents:	ty		
<u>Comp</u> Solve	oonents: ent naphtha (petroleum	-	ght aromatic:	
<u>Comp</u> Solve	oonents:	-		y biodegradable. 94 %
<u>Comp</u> Solve Biodes	oonents: ent naphtha (petroleum	-	ght aromatic: Result: Inherently Biodegradation:	y biodegradable. 94 %
Comp Solve Biodes	oonents: ent naphtha (petroleum gradability), li	ght aromatic: Result: Inherently Biodegradation: Exposure time: 2 Result: Readily b	y biodegradable. 94 % 5 d
Comp Solve Biodes Cotto Biodes	oonents: ont naphtha (petroleum gradability nseed oil:), li :	ght aromatic: Result: Inherently Biodegradation: Exposure time: 2 Result: Readily b Remarks: Based	y biodegradable. 94 % 5 d viodegradable. on data from similar materials
Comp Solve Biodes Cotto Biodes	oonents: ent naphtha (petroleum gradability nseed oil: gradability), li :	ght aromatic: Result: Inherently Biodegradation: Exposure time: 2 Result: Readily b Remarks: Based alkyl derivs., calc Result: Readily b Biodegradation: Exposure time: 2	y biodegradable. 94 % 5 d biodegradable. on data from similar materials ium salts: biodegradable. 100 %
Comp Biodeg Cotto Biodeg Benze Biodeg	oonents: ont naphtha (petroleum gradability nseed oil: gradability enesulfonic acid, C10-1), li	ght aromatic: Result: Inherently Biodegradation: Exposure time: 2 Result: Readily b Remarks: Based Alkyl derivs., calc Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	y biodegradable. 94 % 5 d biodegradable. on data from similar materials ium salts: biodegradable. 100 %
Comp Biodes Cotto Biodes Biodes Biodes	ponents: ent naphtha (petroleum gradability nseed oil: gradability enesulfonic acid, C10-1 gradability), li : 13-a : tho	ght aromatic: Result: Inherently Biodegradation: Exposure time: 2 Result: Readily b Remarks: Based alkyl derivs., calc Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1 xylated: Result: Not readi	y biodegradable. 94 % 25 d biodegradable. on data from similar materials ium salts: biodegradable. 100 % 28 d Fest Guideline 301B
Comp Biodes Cotto Biodes Biodes A-Non Biodes	ponents: ent naphtha (petroleum gradability nseed oil: gradability enesulfonic acid, C10-1 gradability), li : 13-a : tho	ght aromatic: Result: Inherently Biodegradation: Exposure time: 2 Result: Readily b Remarks: Based alkyl derivs., calc Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1 xylated: Result: Not readi	y biodegradable. 94 % 25 d biodegradable. on data from similar materials ium salts: biodegradable. 100 % 28 d Fest Guideline 301B





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Biode	egradability	:	Result: Not readil Biodegradation: Exposure time: 20 Mothed: OECD T	4.5 %
Bioa	ccumulative potential		Method. CECD 1	
<u>Com</u>	ponents:			
	enesulfonic acid, C10-	13-a	•	um salts:
	ion coefficient: n- iol/water	:	log Pow: 2.89	
delta	methrin (ISO):			
Bioad	ccumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
	ion coefficient: n- ol/water	:	log Pow: 4.6	
2,6-D	i-tert-butyl-p-cresol:			
Bioad	ccumulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1,800
	ion coefficient: n- ol/water	:	log Pow: 5.1	
Mobi	lity in soil			
Com	ponents:			
delta	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 han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	:	UN 3295 HYDROCARBONS, LIQUID, N.O.S. 3 III 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen-	:	UN 3295 Hydrocarbons, liquid, n.o.s. 3 III Flammable Liquids 366 355
ger aircraft) IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		UN 3295 HYDROCARBONS, LIQUID, N.O.S. (deltamethrin (ISO), 2,6-Di-tert-butyl-p-cresol) 3 III 3 F-E, S-D yes

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

Not applicable for product as supplied.

National Regulations

ADG UN number Proper shipping name Class Packing group Labels Hazchem Code	:	UN 3295 HYDROCARBONS, LIQUID, N.O.S. 3 III 3 3Y
Environmentally hazardous	:	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.



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SECTION 15. REGULATORY INFORMATION

Safety, health and environmen ture	tal regulations/legislatio	on specific for the substance or mix-		
Therapeutic Goods (Poisons : Standard) Instrument		the original publication to check for onditions or threshold limits that might		
Prohibition/Licensing Requireme	nts :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this product are reported in the following inventories:				
AICS :	not determined			
DSL :	not determined			

IECSC : not determined

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information			
Revision Date Sources of key data used to compile the Safety Data Sheet	:	13.09.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Date format	:	dd.mm.yyyy	
Full text of other abbreviations			
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)	
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Con- taminants.	
ACGIH / TWA	:	8-hour, time-weighted average	
AU OEL / TWA	:	Exposure standard - 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 Chemi-

SAFETY DATA SHEET



Deltamethrin (2.5%) Formulation

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cal 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 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.

AU / EN