

Deltamethrin Collar

Version 10.0	Revision Date: 28.09.2024		S Number: 704-00029	Date of last issue: 03.11.2023 Date of first issue: 01.04.2015				
SECTION	SECTION 1. IDENTIFICATION							
Produ	uct identifier	:	Deltamethrin Co	Deltamethrin Collar				
Manu	facturer or supplier's	s deta	ils					
Comp	bany	:	MSD					
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340					
Telep	Telephone		908-740-4000					
Emer	Emergency telephone		1-908-423-6000					
E-ma	il address	:	EHSDATASTEW	VARD@msd.com				
Reco	mmended use of the	chem	ical and restriction	ons on use				
	mmended use ictions on use	:	Veterinary produ Not applicable	ict				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard Acute toxicity (Oral) : Category 4						
Skin sensitization	:	Category 1				
Reproductive toxicity	:	Category 2				
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system, Immune system)				
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 2 (Central nervous system)				
Short-term (acute) aquatic hazard	:	Category 3				
Long-term (chronic) aquatic hazard	:	Category 3				

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	
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Signa	l Word	: Warning			
Hazard Statements		H317 May H361fd Su ing the unt H373 May Immune sy swallowed H373 May through pro	 H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Central nervous system Immune system) through prolonged or repeated exposure if swallowed. H373 May cause damage to organs (Central nervous system through prolonged or repeated exposure if inhaled. H412 Harmful to aquatic life with long lasting effects. 		
Preca	utionary Statements	P270 Do n P272 Cont the workpl P273 Avoid	in special instructions before use. ot eat, drink or smoke when using this product. aminated work clothing should not be allowed out ace. d release to the environment. r protective gloves/ protective clothing/ eye protec-		
		CENTER/ P302 + P3 P308 + P3 attention.	 12 + P330 IF SWALLOWED: Call a POISON doctor if you feel unwell. Rinse mouth. 52 IF ON SKIN: Wash with plenty of water. 13 IF exposed or concerned: Get medical advice/ 13 If skin irritation or rash occurs: Get medical ad- 		
		Storage: P405 Store	e locked up.		

Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: Mixture

Substance / Mixture

Components			
Chemical name	CAS-No.	Classification	Concentration (% w/w)
Polyvinyl chloride	9002-86-2		>= 50 -< 70
Triphenyl phosphate	115-86-6	Aquatic Acute, 1 Aquatic Chronic, 1	>= 30 -< 50
Deltamethrin (ISO)	52918-63-5	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 3 Eye Irrit., 2A Skin Sens., 1A Repr., 2	>= 3 -< 5



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			STOT SE, 3 STOT RE, (Oral)(Central nervous system, Immune sys- tem), 1 STOT RE, (Inhala- tion)(Central nervous system), 1 Aquatic Acute, 1 Aquatic Chronic, 1	
Titani	um dioxide	13463-67-7	Carc. (Inhalation), 2 >= 1 -< 5	

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek me advice immediately. When symptoms persist or in all cases of doubt see	
If inhaled	advice. If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	In case of contact, immediately flush skin with soap of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	and plenty
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persis	sts
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious pe	
Most important symptoms and effects, both acute and delayed	Harmful if swallowed. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of dama unborn child. May cause damage to organs through prolonged or exposure if swallowed. May cause damage to organs through prolonged or exposure if inhaled. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with ca or organophosphate poisoning.	ging the repeated repeated
Protection of first-aiders	First Aid responders should pay attention to self-pro and use the recommended personal protective equi when the potential for exposure exists (see section a	pment
Notes to physician	Treat symptomatically and supportively.	<i></i>

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam



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				Carbon dioxide (C Dry chemical	:02)	
	Jnsuita nedia	ble extinguishing	:	None known.		
	Specific hazards during fire fighting		:	Exposure to comb	oustion products may be a hazard to health.	
	Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (NOx) Bromine compounds Chlorine compounds Oxides of phosphorus		
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray to	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	
		protective equipment	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus.	

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. 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	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. 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.



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	Advice on safe handling Hygiene measures		Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the				
	ditions for safe storage erials to avoid	The effe engineer appropri industria use of ac : Keep in Store loo Store in : Do not s	ntaminated clothing before re-use. ctive operation of a facility should include review of ing controls, proper personal protective equipment, ate degowning and decontamination procedures, I hygiene monitoring, medical surveillance and the dministrative controls. properly labeled containers. cked up. accordance with the particular national regulations. tore with the following product types:				
		Self-read	xidizing agents ctive substances and mixtures peroxides es				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Polyvinyl chloride	9002-86-2	TWA (Respirable particulate matter)	1 mg/m ³	ACGIH
Triphenyl phosphate	115-86-6	TWA	3 mg/m ³	ACGIH
Deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further informa	ation: DSEN, Sk	in	
		Wipe limit	100 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	TWA (Respirable particulate matter)	2,5 mg/m ³ (Titanium dioxide)	ACGIH

Ingredients with workplace control parameters



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	This substance(s) is not bioavailable and therefore does not contribute to a dust inhalatio hazard.								
	Titanium dioxi	de							
Engi	neering measures	design and protect pro Containme are require the compo containme	ering controls should be implemented by facility d operated in accordance with GMP principles to oducts, workers, and the environment. ent technologies suitable for controlling compounds ed to control at source and to prevent migration of ound to uncontrolled areas (e.g., open-face int devices). open handling.						
Pers	onal protective equip	ment							
Fi	iratory protection Iter type I protection	exposure	e local exhaust ventilation is not available or assessment demonstrates exposures outside the ided guidelines, use respiratory protection. as type						
М	aterial	: Chemical-	resistant gloves						
Eye p	emarks protection and body protection	 Wear safe If the work mists or a Wear a fac potential fac aerosols. Work unifor Additional task being disposable Use approximation 	double gloving. ty glasses with side shields or goggles. environment or activity involves dusty conditions, erosols, wear the appropriate goggles. ceshield or other full face protection if there is a or direct contact to the face with dusts, mists, or orm or laboratory coat. body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, e suits) to avoid exposed skin surfaces. priate degowning techniques to remove potentially ted clothing.						

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	solid
Color	:	white
Odor	:	very faint
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 148,8 °C
Flash point	:	Not applicable



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	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	Not classified as	a flammability hazard
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	Not applicable	
		lition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	characteristics 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		

SECTION 11. TOXICOLOGICAL INFORMATION



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	Information on likely routes of exposure		Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.			
<u>Produ</u>	uct:			
Acute	oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1.668 mg/kg ion method
Acute	Acute inhalation toxicity		Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist
<u>Comp</u>	oonents:			
	enyl phosphate:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit): >	10.000 mg/kg
	methrin (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 66,7	mg/kg
			LD50 (Rat): 9 - 1	39 mg/kg
			LD50 (Mouse): 1	9 - 34 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0,8 n Exposure time: 2 Test atmosphere	ĥ
Acute	dermal toxicity	:	LD50 (Rabbit): 2.	000 mg/kg
			LD50 (Rat): > 80) mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 2,5 n Application Route	
			LD50 (Mouse): 1 Application Route	
	ium dioxide:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	UU mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 6,8 Exposure time: 4 Test atmosphere Assessment: The tion toxicity	h



ersion 0.0	Revision Date: 28.09.2024	SDS Number: 85704-00029	Date of last issue: 03.11.2023 Date of first issue: 01.04.2015
Skin	corrosion/irritation		
Not c	lassified based on ava	ailable information.	
Com	ponents:		
Triph	enyl phosphate:		
Spec		: Rabbit	
Meth Resu		: OECD Test Gu : No skin irritation	
Delta	methrin (ISO):		
Spec Resu		: Rabbit : No skin irritation	n
Titan	ium dioxide:		
Spec Resu	ies It	: Rabbit : No skin irritation	n
Serio	ous eye damage/eye	irritation	
	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Triph	enyl phosphate:		
Spec Resu		: Rabbit : No eye irritatior	
Meth		: OECD Test Gu	
Delta	methrin (ISO):		
Spec	ies	: Rabbit	
Resu	lt	: Moderate eye i	rritation
Titan	ium dioxide:		
Spec Resu		: Rabbit : No eye irritatior	1
Resp	iratory or skin sensi	tization	
Skin	sensitization		
May	cause an allergic skin	reaction.	
Resp	iratory sensitization		
Not c	lassified based on ava	ailable information.	
Com	ponents:		
	enyl phosphate:		
Test Route	Type es of exposure	: Maximization T	est
Spec	-	: Skin contact : Guinea pig	
Meth	od	: OECD Test Gu	ideline 406
Resu	π	: negative	



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Test T Route Speci Resul	s of exposure es t Type es of exposure es	: [: G : n : F : E : F	Aaximization ⁻ Dermal Guinea pig legative Human repeat Dermal Humans lositive	Test insult patch test (HRIPT)
Test 1	es of exposure es	: S : N	ocal lymph no Skin contact Aouse legative	ode assay (LLNA)
Not cl	cell mutagenicity assified based on av conents:	ailable in	formation.	
	enyl phosphate: toxicity in vitro	N F T N	Nethod: OECI Result: negativ Fest Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 471
		Т	-	vitro mammalian cell gene mutation test
	methrin (ISO): toxicity in vitro	F T F T T T C	Result: negative Test Type: DN Test system: E Result: negative Test Type: Ch Test system: C Result: negative Test Type: In version of the test system: C	IA Repair Escherichia coli ve romosomal aberration Chinese hamster ovary cells ve vitro mammalian cell gene mutation test Chinese hamster lung cells : LOAEL: 20 mg/kg



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Gen	otoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative	
		Test Type: dominant lethal test Species: Mouse Application Route: Oral Result: negative	
		Test Type: sister chromatid exchange assay Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative	
Titar	nium dioxide:		
	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
Gene	otoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Result: negative	
Not o <u>Com</u>	: inogenicity classified based on avai aponents: amethrin (ISO):	ble information.	
Spec		: Mouse, male and female	
	ication Route	: oral (feed) : 104 weeks	
NOA		: 8 mg/kg body weight	
LOA		: 4 mg/kg body weight	
Resu Targ	ult et Organs	: positive : Lymph nodes	
	Ū		
Spec	ication Route	: Rat, male and female : oral (feed)	
Expo	osure time	: 2 Years	
Resu	ult	: negative	
Spec		: Dog, male and female	
	ication Route	: oral (feed) : 2 Years	
NOA		: 1 mg/kg body weight	
Resu		: negative	
Titar	nium dioxide:		
Spec	cies	: Rat	
Appl	ication Route	: inhalation (dust/mist/fume)	
Expo	osure time	: 2 Years	



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Metho Result Rema	t	:	mans. This substance(s)	eline 453 or mode of action may not be relevant in hu is not bioavailable and therefore does not st inhalation hazard.
Carcin ment	ogenicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
Suspe	ductive toxicity cted of damaging fertilit onents:	y. S	uspected of damage	ging the unborn child.
	enyl phosphate: s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effects	s on fetal development	:	Test Type: Embry Species: Rabbit Application Route Method: OECD To Result: negative	
Deltar	nethrin (ISO):			
Effects	s on fertility	:	Species: Rat Application Route Early Embryonic I weight Symptoms: No eff	generation reproduction toxicity study c oral (feed) Development: NOAEL: 50 mg/kg body fects on fertility., Embryo-fetal toxicity. ant toxicity observed in testing
			Species: Rat Application Route Early Embryonic I weight	eneration reproduction toxicity study : Oral Development: LOAEL: 84 - 149 mg/kg body fects on fertility., Embryo-fetal toxicity.
			Test Type: Fertilit Species: Rat, mal Application Route Fertility: LOAEL: Symptoms: Effect Target Organs: To	e : Oral 1 mg/kg body weight s on fertility.
Effects	s on fetal development	:	Test Type: Develor Species: Mouse Application Route Developmental To	



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		-	Result: Skeletal Remarks: Mater	malformations. nal toxicity observed.
		5 [
		9 / [Developmental	
Repro sessn	oductive toxicity - As- nent			of adverse effects on sexual function and n development, based on animal experiments.
	-single exposure lassified based on avai	lable in	formation.	
Com	oonents:			
Delta	methrin (ISO):			
Asses	ssment	: 1	May cause resp	iratory irritation.
STOT	-repeated exposure			
May o repea	cause damage to organ ted exposure if swallow cause damage to organ	ved.	-	stem, Immune system) through prolonged or stem) through prolonged or repeated exposure
<u>Com</u>	oonents:			
	methrin (ISO):	. 1	ngestion	

Routes of exposure Target Organs Assessment	 Ingestion Central nervous system, Immune system Causes damage to organs through prolonged or repeated exposure.
Routes of exposure Target Organs Assessment	 inhalation (dust/mist/fume) Central nervous system Causes damage to organs through prolonged or repeated exposure.
Repeated dose toxicity	

Components:

Triphenyl phosphate:

Species	: Rat
NOAEL	: 105 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Species NOAEL Application Route Exposure time Method	: OECD Test Guideline 408



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Dolta	methrin (ISO):		
	• •	: Rat, male and	famala
Speci NOAE		: 1 mg/kg	Temale
LOAE		: 2,5 mg/kg	
	cation Route	: Oral	
	sure time	: 13 Weeks	
Targe	et Organs	: Nervous syste	m
Symp	toms	: hyperexcitabili	
Speci		: Rat	
LOAE		: 3 mg/m3	
	cation Route	: inhalation (dus	
Expos	sure time	: 2 wk / 5 d/wk /	, respiratory tract irritation
Symp	toms	. Local imitation,	, respiratory tract initiation
Speci		: Dog	
NOAE		: 0,1 mg/kg	
LOAE		: 1 mg/kg	
	cation Route	: Oral	
Exposure time Target Organs		: 13 Weeks : Nervous syste	m
Symp			e pupil, Vomiting, Tremors, Diarrhea, Salivatio
Speci	es	: Rat	
NOAE		: 14 mg/kg	
LOAE		: 54 mg/kg	
	cation Route	: Oral	
Expos	sure time	: 91 d	
Targe	et Organs	: Nervous syste	m
Speci		: Mouse	
LOAE		: 6 mg/kg	
	cation Route	: Oral : 12 Weeks	
Expos	sure time et Organs	: Immune system	m
Symp	toms	: immune system	
Titani	ium dioxide:		
Speci NOAE		: Rat : 24,000 mg/kg	
	cation Route	: 24.000 mg/kg : Ingestion	
	sure time	: 28 Days	
Speci	es	: Rat	
NOAE	EL	: 10 mg/m³	
	cation Route	: inhalation (dus	st/mist/fume)
Expos	sure time	: 2 y	

Aspiration toxicity

Not classified based on available information.



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Expe	rience with human exp	osı	ire			
Prod	uct:					
Skin	Skin contact		 Remarks: Can be absorbed through skin. Based on Animal Evidence May irritate skin. Remarks: May be harmful if swallowed. 			
Inges						
Com	ponents:					
Delta	methrin (ISO):					
Inhala	Inhalation		Headache, Nause	atory tract irritation, Dizziness, Sweating, a, Vomiting, anorexia, Fatigue, tingling,		
Skin	contact	:	 Palpitation, Blurred vision, muscle twitching Symptoms: Skin irritation, Erythema, pruritis, Headach sea, Vomiting, Dizziness, tingling, Sweating, muscle tw 			
Inges	stion			atigue, anorexia, Allergic reactions de pain, Small pupils		
Ecot	oxicity					
Prod	uct:					
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD Te			
Toxic	ity to daphnia and other	:	EC50 (Daphnia m	agna (Water flea)): 13 mg/l		
aquat	tic invertebrates		Exposure time: 48 Method: OECD To			
Ecot	oxicology Assessment					
Chro	nic aquatic toxicity	:	Harmful to aquation	life with long locting offecto		
Child		•	·	the with long lasting effects.		
	ponents:			chie with long lasting enects.		
Com				the with long lasting enects.		
<u>Com</u> Triph	ponents:	:		hus mykiss (rainbow trout)): 0,4 mg/l		

Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 3,73 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 0,25 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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II				
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	ty to fish (Chronic tox-	:	Exposure time: 7	io (zebra fish)): 0,0048 mg/l 73 d Test Guideline 234
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 0,254 mg/l 21 d Test Guideline 211
M-Fac toxicit	ctor (Chronic aquatic y)	:	1	
Deltar	methrin (ISO):			
Toxici	ty to fish	:	LC50 (Cyprinodo mg/l Exposure time: 9	on variegatus (sheepshead minnow)): 0,0004 96 h
			LC50 (Oncorhyn Exposure time: 9	nchus mykiss (rainbow trout)): 0,00039 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Mysidops Exposure time: 4	sis bahia (opossum shrimp)): 0,0037 μg/l 48 h
			EC50 (Daphnia Exposure time: 4	magna (Water flea)): 0,0035 mg/l 48 h
			LC50 (Gammaru Exposure time: S	us fasciatus (freshwater shrimp)): 0,0003 µg/ 96 h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD	irchneriella subcapitata (green algae)): > 9,1 72 h Test Guideline 201 kicity at the limit of solubility.
	ctor (Acute aquatic tox-	:	1.000.000	
icity) Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimepha mg/l Exposure time: 3	ales promelas (fathead minnow)): 0,000022 36 d
			NOEC (Pimepha mg/l Exposure time: 2	ales promelas (fathead minnow)): 0,000017 260 d
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia Exposure time: 2	n magna (Water flea)): 0,0041 μg/l 21 d
	ctor (Chronic aquatic	:	1.000.000	
·	um dioxide:			
	ty to fish	:	LC50 (Oncorhyn Exposure time: §	nchus mykiss (rainbow trout)): > 100 mg/l 96 h



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II			Method: OECD	Test Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h
Toxici plants	ity to algae/aquatic	:	EC50 (Skeleton Exposure time:	ema costatum (marine diatom)): > 10.000 mg 72 h
Toxicity to microorganisms		:	: EC50: > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Persi	stence and degradabil	ity		
Com	oonents:			
Triph	enyl phosphate:			
Biode	gradability	:	Result: Readily Biodegradation: Exposure time:	83 - 94 %
Delta	methrin (ISO):			
Stabil	ity in water	:	Hydrolysis: 0 %	(30 d)
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
Triph	enyl phosphate:			
Bioac	cumulation	:		s latipes (Orange-red killifish) n factor (BCF): 144
	on coefficient: n- ol/water	:	log Pow: 4,63	
Delta	methrin (ISO):			
Bioac	cumulation	:		nis macrochirus (Bluegill sunfish) n factor (BCF): 1.800
	on coefficient: n- ol/water	:	log Pow: 4,6	
Mobil	lity in soil			
Comp	oonents:			
Delta	methrin (ISO):			
Distrik	oution among environ- al compartments	:	log Koc: 7,2	
	r adverse effects ata available			



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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 Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

ANTT

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

National List of Carcinogenic Agents for Humans - (LINACH) Group 2B: Possibly carcinogenic to humans Titanium dioxide 13463-67-7 Brazil. List of chemicals controlled by the Federal : Not applicable Police

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

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

SECTION 16. OTHER INFORMATION



Data Sheet

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	sion Date format	:	28.09.2024 dd.mm.yyyy	
Furt	her information			
	rces of key data used to pile the Material Safety	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen-

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

cy, http://echa.europa.eu/

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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



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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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