

Version 5.1	Revision Date: 28.09.2024		S Number: 30569-00010		sue: 06.04.2024 sue: 13.01.2021				
Section 1	: Identification								
Produ	uct name	:	Deltamethrin (3%	6) Formulation					
Manu	afacturer or supplier's c	letai	ils						
Comp	bany	:	MSD						
Addre	Address		33 Whakatiki Str Upper Hutt - Nev		g 908				
Telep	phone	:	0800 800 543						
Emer	Emergency telephone number		0800 764 766 (0 CHEMCALL)	800 POISON)	0800 243 622 (0800				
E-mail address		:	EHSDATASTEW	/ARD@msd.co	m				
Reco	mmended use of the cl	nem	ical and restriction	ons on use					
Deee			· Votorinon, product						

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

Section 2: Hazard identification

GHS Classification

Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Dermal)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2
Aspiration hazard	:	Category 1



Version 5.1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
	zardous to the aquatic vironment - acute hazard	: Category 1	
	zardous to the aquatic /ironment - chronic hazard	: Category 1	
GH	S label elements		
Hai	zard pictograms		
Sig	nal word	: Danger	• • • •
Ha	zard statements	H302 + H312 I H304 May be f H315 Causes H317 May cau H318 Causes H335 May cau H361 Suspect H373 May cau peated exposu	se an allergic skin reaction. serious eye damage. se respiratory irritation. ed of damaging fertility or the unborn child. se damage to organs through prolonged or re-
	ecautionary statements	P202 Do not h and understoo P210 Keep aw and other ignit P233 Keep co P241 Use expl ment. P242 Use non P243 Take act P260 Do not b P264 Wash sk P270 Do not e P271 Use only P272 Contami the workplace.	ray from heat, hot surfaces, sparks, open flames ion sources. No smoking. ntainer tightly closed. losion-proof electrical/ ventilating/ lighting equip- -sparking tools. ion to prevent static discharges. reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. routdoors or in a well-ventilated area. nated work clothing should not be allowed out of
		P280 Wear pro tion/ face prote	otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P302 + P352 +	F SWALLOWED: Immediately call a POISON tor. - P312 IF ON SKIN: Wash with plenty of water. N CENTER/ doctor if you feel unwell.



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	7730569-00010	Date of first issue: 13.01.2021
		ly all contamina	- 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/
			- P338 + P310 IF IN EYES: Rinse cautiously with
			al minutes. Remove contact lenses, if present
		and easy to do CENTER/ doct	. Continue rinsing. Immediately call a POISON
			F exposed or concerned: Get medical advice/
		attention.	
			induce vomiting. f skin irritation or rash occurs: Get medical ad-
		vice/ attention.	
		P391 Collect s	pillage.
		Storage:	
		P403 + P235 S P405 Store loc	Store in a well-ventilated place. Keep cool. ked 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)
Xylene	1330-20-7	>= 70 -< 90
Calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10
Nonylphenol, ethoxylated	9016-45-9	>= 3 -< 10
deltamethrin (ISO)	52918-63-5	>= 2.5 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 1 -< 2.5

Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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



Version 5.1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021				
		and shoes. Get medical att Wash clothing I Thoroughly clea					
In cas	se of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. 					
lf swa	allowed	: 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.				
	important symptoms iffects, both acute and ed	 Never give anything by mouth to an unconscious person. Harmful if swallowed or in contact with skin. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeating exposure. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbarn 					
	ction of first-aiders	: First Aid respon and use the rec when the poten	bhate poisoning. nders should pay attention to self-protection, commended personal protective equipment itial for exposure exists (see section 8).				
	s to physician : Fire-fighting measure		atically and supportively.				
Suita	ble extinguishing media	: Water spray Alcohol-resistar Carbon dioxide Dry chemical					
Unsu media	itable extinguishing a	: High volume wa	ater jet				
Spec fightir	ific hazards during fire- ng	fire. Flash back pos Vapours may fo	blid water stream as it may scatter and spread sible over considerable distance. form explosive mixtures with air. mbustion products may be a hazard to health.				
Haza ucts	rdous combustion prod-	d- : Carbon oxides Nitrogen oxides (NOx) Bromine compounds Metal oxides Sulphur compounds					
Spec	ific extinguishing meth-	: Use extinguishi	ing measures that are appropriate to local cir-				
		4 / 28					



Versi	on Revision Date:	SE	OS Number:	Date of last issue: 06.04.2024	
5.1	28.09.2024	77	30569-00010	Date of first issue: 13.01.2021	
C	ods		cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.		
	Special protective equipment for firefighters		In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
ł	Hazchem Code		3Y		
Secti	on 6: Accidental release me	eas	ures		
t	Personal precautions, protec- tive equipment and emer- gency procedures		Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal tective equipment recommendations (see section 8).		
E	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 other the spreading over a wide area (e.g. by containment or other the spread of the spread o		

		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	:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine 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. Use explosion-proof electrical, ventilating and lighting equip- ment.

SAFETY DATA SHEET



Version 5.1	Revision Date: 28.09.2024	SDS Numb 7730569-00	-	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021		
Advice on safe handling		Do not b Do not s Do not s Wash sl Handle practice sessme Non-spa Keep co Already to asthn should o tory irrits Keep av other ig Take pr Do not e Take ca	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safet practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease should consult their physician regarding working with respiratory irritants or sensitisers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to th environment. 			
Hyg	iene measures	flushing place. When u Contam workpla Wash co The effe enginee appropr industria	systems a sing do no inated wo ce. ontaminate ctive oper ring contro iate degov al hygiene	emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the ive controls.		
Con	ditions for safe storage	Store lo Keep tig Keep in Store in	cked up. htly close a cool, we accordan	abelled containers. d. ell-ventilated place. ce with the particular national regulations. neat and sources of ignition.		
Mate	erials to avoid	: Do not s Self-rea Organic Oxidizin Flamma Pyropho Self-hea	store with ctive subs peroxides g agents able gases pric liquids pric solids ating subs pus gases	the following product types: tances and mixtures		



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	7730569-00010	Date of first issue: 13.01.2021

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					
Xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL					
	Further inform biological mon	,	Exposure can also be	estimated by					
		TWA	20 ppm	ACGIH					
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					
2,6-Di-tert-butyl-p-cresol	128-37-0	WES-TWA	10 mg/m3	NZ OEL					
	Further inform	Further information: Skin sensitiser							
		TWA (Inhal-	2 mg/m3	ACGIH					
		able fraction and vapor)							

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Xylene	1330-20-7	Methylhip- puric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhip- puric acids	Urine	End of shift (As soon as possible after exposure ceases)	0.3 g/g cre- atinine	ACGIH BEI

Engineering measures: Use appropriate engineering controls and manufacturing
technologies to control airborne concentrations (e.g., drip-
less quick connections).
All engineering controls should be implemented by facility
design and operated in accordance with GMP principles to
protect products, workers, and the environment.
Containment technologies suitable for controlling compounds
are required to control at source and to prevent migration of
the compound to uncontrolled areas (e.g., open-face con-
tainment devices).
Minimize open handling.Use explosion-proof electrical, ventilating and lighting equip-

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or expo-

ment.



Version 5.1	Revision Date: 28.09.2024	-	9S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
	ilter type d protection	:	ommended guide	demonstrates exposures outside the rec- lines, use respiratory protection. lates and organic vapour type
N	laterial	:	Chemical-resistar	nt gloves
R	emarks	:		gloving. Take note that the product is flam- / impact the selection of hand protection.
Eye	protection	:	Wear safety glass If the work enviro mists or aerosols Wear a faceshield	ses with side shields or goggles. nment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
Skin	and body protection	:	task being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially

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	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	45 - 51 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available





sion	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
Vapou	ır pressure	: No data avai	lable
Relati	ve vapour density	: No data avai	lable
Relati	ve density	: No data avai	lable
Densi	ty	: No data avai	lable
	ility(ies) ater solubility	: soluble	
	on coefficient: n- ol/water	: Not applicab	le
	gnition temperature	: No data avai	lable
Decor	nposition temperature	: No data avai	lable
Viscos Vis	sity scosity, kinematic	: No data avai	lable
Explo	sive properties	: Not explosive	9
Oxidiz	ing properties	: The substan	ce or mixture is not classified as oxidizing.
Molec	ular weight	: No data avai	lable
	le characteristics le size	: Not applicab	le

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion Eye contact



ersion 1	Revision Date: 28.09.2024		OS Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
Acute	e toxicity			
	ful if swallowed or in co	ontac	t with skin.	
Prod	uct:			
	oral toxicity	:	Acute toxicity est Method: Calculat	timate: 415.15 mg/kg tion method
Acute	inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h e: dust/mist
Acute	e dermal toxicity	:	Acute toxicity est Method: Calculat	timate: 1,347 mg/kg tion method
<u>Com</u>	ponents:			
Xyler	ne:			
Acute	e oral toxicity	:	Method: Expert j	timate: 500 mg/kg udgement on national or regional regulation.
Acute	inhalation toxicity	:	LC50 (Rat): 27.5 Exposure time: 4 Test atmosphere	⊧h
Acute	e dermal toxicity	:	Method: Expert j	timate: 1,100 mg/kg udgement on national or regional regulation.
Calci	um dodecylbenzenes	ulph	onate:	
Acute	e oral toxicity	:		0 - 2,000 mg/kg Fest Guideline 401 I on data from similar materials
Acute	e dermal toxicity	:		2,000 mg/kg Fest Guideline 402 on data from similar materials
Nony	Iphenol, ethoxylated:			
-	oral toxicity	:	LD50 (Rat): 500	- 2,000 mg/kg
delta	methrin (ISO):			
	e oral toxicity	:	LD50 (Rat): 66.7	′ mg/kg
			LD50 (Rat): 9 - 1	39 mg/kg
			LD50 (Mouse): 1	
-			. ,	
Acute	inhalation toxicity	:	LC50 (Rat): 0.8 r	mg/l



rsion	Revision Date: 28.09.2024		S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
			Exposure time: 2 Test atmosphere	
Acute	Acute dermal toxicity		LD50 (Rabbit): 2,	000 mg/kg
			LD50 (Rat): > 80	0 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 2.5 n Application Route	
			LD50 (Mouse): 1 Application Route	
2,6-Di	-tert-butyl-p-cresol:			
Acute	oral toxicity	:	LD50 (Rat): > 6,0 Method: OECD T	000 mg/kg Test Guideline 401
Acute	dermal toxicity	:		000 mg/kg est Guideline 402 e substance or mixture has no acute derma
-	corrosion/irritation es skin irritation.			
<u>Comp</u>	oonents:			
Xylen	e:			
Speci Resul		:	Rabbit Skin irritation	
Calci	um dodecylbenzenesu	lph	onate:	
Speci		:	Rabbit	
Metho Resul		÷	OECD Test Guid Skin irritation	eline 404
Rema		:		om similar materials
Nony	Iphenol, ethoxylated:			
Speci		:	Rabbit	
Metho		:	OECD Test Guid	eline 404
Resul	L	•	No skin irritation	
	nethrin (ISO):		Dabbit	
Speci Resul		:	Rabbit No skin irritation	
2,6-D	-tert-butyl-p-cresol:			
Speci	22		Rabbit	



rsion I	Revision Date: 28.09.2024	SDS Number: 7730569-0001	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
Metho			t Guideline 404
Resu Rema		: No skin irrit	
Rema	arks	: Based on c	lata from similar materials
	ous eye damage/eye es serious eye damag		
	ponents:	JC.	
Xyler			
-		: Rabbit	
Speci Resu			eyes, reversing within 21 days
Resu	n.	. initation to	
	um dodecylbenzene	•	
Speci		: Rabbit	<i>и</i>
Resu			effects on the eye
Metho			t Guideline 405
Rema	arks	: Based on c	lata from similar materials
Nony	Iphenol, ethoxylated	l:	
Speci	ies	: Rabbit	
Resu			effects on the eye
Metho	od	: OECD Tes	t Guideline 405
delta	methrin (ISO):		
Speci	ies	: Rabbit	
Resu		: Moderate e	eye irritation
2.6-D	i-tert-butyl-p-cresol:		
Speci		: Rabbit	
Resu		: No eye irrit	ation
Metho	od	: OECD Tes	t Guideline 405
Rema	arks	: Based on c	lata from similar materials
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
May o	cause an allergic skin	reaction.	
Resp	iratory sensitisation		
Not c	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Xyler			
Toet -	Τνρο	: Local lymp	h node assav (LLNA)



/ersion 5.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20247730569-00010Date of first issue: 13.01.2021	
Calci	um dodecylbenzene	sulphonate:	
Test T	-	: Maximisation Test	
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho Resul		: OECD Test Guideline 406 : negative	
Rema		: Based on data from similar materials	
Nony	Iphenol, ethoxylated	:	
Test T	Гуре	: Maximisation Test	
Expos	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul		: negative	
Rema	IIKS	: Based on data from similar materials	
	methrin (ISO):		
Test T		: Maximisation Test	
Expos Speci	sure routes	: Dermal	
Resul		: Guinea pig : negative	
Test T		: Human repeat insult patch test (HRIPT) : Dermal	
Speci	sure routes	: Humans	
Resul		: positive	
2,6-Di	i-tert-butyl-p-cresol:		
Test T	Гуре	: Human repeat insult patch test (HRIPT)	
Expos	sure routes	: Skin contact	
Speci		: Humans	
Resul	t	: negative	
Chror	nic toxicity		
	cell mutagenicity assified based on ava	ilable information	
	onents:		
Xylen			
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMI Result: negative	ES
		Test Type: Chromosome aberration test in vitro Result: negative	
		Test Type: In vitro mammalian cell gene mutation Result: negative	i te
		13 / 28	



Vers 5.1	sion	Revision Date: 28.09.2024	-	0S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
				Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
	Genoto	oxicity in vivo	:	Test Type: Roden Species: Mouse Application Route Result: negative	it dominant lethal test (germ cell) (in vivo) : Skin contact
	Calcium dodecylbenzenesulphonate:				
	Genoto	oxicity in vitro	:	Method: OECD To Result: negative	
				Remarks: Based	on data from similar materials
				Test Type: In vitro Result: negative	o mammalian cell gene mutation test
					on data from similar materials
				Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
					on data from similar materials
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo ′)
				Application Route Result: negative	: Ingestion
					on data from similar materials
	Nonvir	ohenol, ethoxylated:			
		oxicity in vitro	:		ial reverse mutation assay (AMES)
				Result: negative Remarks: Based	on data from similar materials
	deltam	ethrin (ISO):			
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: DNA F Test system: Escl Result: negative	
					nosomal aberration nese hamster ovary cells
				Test Type: In vitro	o mammalian cell gene mutation test



Version 5.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20247730569-00010Date of first issue: 13.01.2021				
		Test system: Chinese hamster lung cells Concentration: LOAEL: 20 mg/kg Result: positive				
Geno	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				
2,6-D	i-tert-butyl-p-cresol					
	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
		Test Type: In vitro mammalian cell gene mutation test Result: negative				
		Test Type: Chromosome aberration test in vitro Result: negative				
Geno	otoxicity in vivo	 Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative 	w			
	inogenicity lassified based on av	ilable information.				
	ponents:					
Xyler	ne:					
Spec		: Rat : Ingestion				
	sure time	: 103 weeks : negative				
delta	methrin (ISO):					
Spec Appli		 Mouse, male and female oral (feed) 104 weeks 				
		15 / 28				



	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
NOAI LOAE Resu	EL	: 8 mg/kg body : 4 mg/kg body : positive	
	et Organs	: Lymph nodes	
	cation Route sure time	 Rat, male and oral (feed) 2 Years negative 	female
	cation Route sure time EL	 Dog, male and oral (feed) 2 Years 1 mg/kg body negative 	
2,6-D	i-tert-butyl-p-cresol:		
	cation Route sure time	: Rat : Ingestion : 22 Months : negative	
Reproductive toxicity Suspected of damaging fertil		lity or the unborn chi	ld.
	oonents:		
Xyler Effect	ie: is on fertility		e-generation reproduction toxicity study
		Species: Rat Application Ro Result: negativ	oute: inhalation (vapour)
Effect ment	s on foetal develop-	Application Ro Result: negativ : Test Type: Em Species: Rat	oute: inhalation (vapour) ve nbryo-foetal development oute: inhalation (vapour)
ment	oductive toxicity - As-	 Application Ro Result: negative Test Type: Em Species: Rat Application Ro Result: negative Some evidence fertility, and/or 	oute: inhalation (vapour) ve nbryo-foetal development oute: inhalation (vapour)
ment Repro	oductive toxicity - As-	 Application Ro Result: negative Test Type: Em Species: Rat Application Ro Result: negative Some evidenct fertility, and/or Remarks: Bas 	oute: inhalation (vapour) ve nbryo-foetal development oute: inhalation (vapour) ve e of adverse effects on sexual function and on development, based on animal experime



Version 5.1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
Effec ment	ts on foetal develop-	reproduction/o Species: Rat Application Ro Method: OEC Result: negati	ombined repeated dose toxicity study with the developmental toxicity screening test pute: Ingestion D Test Guideline 422 ve sed on data from similar materials
	methrin (ISO): ts on fertility	Species: Rat Application Ro Early Embryon weight Symptoms: No	ree-generation reproduction toxicity study oute: oral (feed) nic Development: NOAEL: 50 mg/kg body o effects on fertility, Embryo-foetal toxicity nificant toxicity observed in testing
		Species: Rat Application Ro Early Embryo weight	vo-generation reproduction toxicity study oute: Oral nic Development: LOAEL: 84 - 149 mg/kg body o effects on fertility, Embryo-foetal toxicity
			male bute: Oral EL: 1 mg/kg body weight ffects on fertility
Effec ment	ts on foetal develop-	Developmenta Result: Skelet	•
		•	
		Developmenta	
Repression session	oductive toxicity - As- ment		ce of adverse effects on sexual function and on development, based on animal experiments.



ersion .1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021				
2,6-D	i-tert-butyl-p-cresol:						
Effect	s on fertility	Species: Ra Application	 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative 				
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion				
	- single exposure cause respiratory irrita	tion.					
<u>Comp</u>	oonents:						
Xylen Asses	ne: ssment	: May cause	respiratory irritation.				
	methrin (ISO): ssment	: May cause	respiratory irritation.				
STOT	- repeated exposur	9					
		ns through prolong	jed or repeated exposure.				
	<u>oonents:</u>						
Targe	ne: sure routes et Organs ssment						
Calci	um dodecylbenzene	sulphonate:					
	ssment	: No significa	int health effects observed in animals at concentr) mg/kg bw or less.				
delta	methrin (ISO):						
Targe	sure routes et Organs ssment		vous system, Immune system mage to organs through prolonged or repeated				
Targe	sure routes et Organs ssment	: Central ner	dust/mist/fume) vous system nage to organs through prolonged or repeated				



ersion 1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021		
	i-tert-butyl-p-cresol: ssment		nealth effects observed in animals at concentra g/kg bw or less.		
Repe	ated dose toxicity				
Comp	oonents:				
Xylen	e:				
	L cation Route sure time	: Rat : > 0.2 - 1 mg/l : inhalation (vap : 13 Weeks : Based on data	our) from similar materials		
		: Rat : 150 mg/kg : Ingestion : 90 Days			
Calci	um dodecylbenzene	sulphonate:			
	L cation Route sure time od ırks es	 Rat > 200 mg/kg Ingestion 6 - 7 Weeks OECD Test Gu Based on data Rabbit > 100 mg/kg 	uideline 422 from similar materials		
		: Skin contact : 28 Days : OECD Test Gu : Based on data	uideline 410 from similar materials		
deltar	methrin (ISO):				
Expos	EL EL cation Route sure time t Organs	: Rat, male and : 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous syster : hyperexcitabilit	m		
	L cation Route sure time	: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation,			



Version 5.1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
Expos Targe Symp Specie NOAE LOAE	EL L cation Route sure time t Organs toms toms	 Dog 0.1 mg/kg 1 mg/kg Oral 13 Weeks Nervous system Dilatation of the tion Rat 14 mg/kg 54 mg/kg Oral 	n e pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Expos	sure time t Organs	: 91 d	~
Specie LOAE Applic Expos	es L cation Route sure time t Organs	 Nervous system Mouse 6 mg/kg Oral 12 Weeks Immune system immune system 	n
2,6-Di	-tert-butyl-p-cresol:		
		: Rat : 25 mg/kg : Ingestion : 22 Months	
-	ation toxicity	ad optors ainvovs	
	e fatal if swallowed ar ponents:	iu enters allways.	

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

deltamethrin	(ISO):
--------------	--------

Inhalation	:	Symptoms: respiratory tract irritation, Dizziness, Sweating,
		Headache, Nausea, Vomiting, anorexia, Fatigue, tingling,
		Palpitation, Blurred vision, muscle twitching
Skin contact	:	Symptoms: Skin irritation, Erythema, pruritis, Headache, Nau-
		sea, Vomiting, Dizziness, tingling, Sweating, muscle twitching,
		Blurred vision, Fatigue, anorexia, Allergic reactions
Ingestion	:	Symptoms: muscle pain, Small pupils



Version Revision Date: SDS Number: Date of last issue: 06.04.2024 5.1 28.09.2024 7730569-00010 Date of first issue: 13.01.2021	Version 5.1	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021	
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Section 12: Ecological information

Ecotoxicity		
Components:		
Xylene:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 13.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Danio rerio (zebra fish)): > 0.1 - < 1 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EL10 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	NOEC: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Calcium dodecylbenzenesu	lph	onate:
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
		NOEC (Pseudokirchneriella subcapitata (green algae)): > 0.1 - 1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials



Versio 5.1	on	Revision Date: 28.09.2024		S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021			
	 Toxicity to fish (Chronic toxicity) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Toxicity to microorganisms Nonylphenol, ethoxylated: Toxicity to fish Toxicity to daphnia and other aquatic invertebrates 		:	mg/l Exposure time: 28 d Remarks: Based on data from similar materials				
а			:					
Т			:	 EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials 				
			:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials			
			:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials			
	Foxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te				
				Exposure time: 72 Method: OECD Te				
		or (Acute aquatic tox-	:	1				
Т	city) Γoxicity city)	to fish (Chronic tox-	:	Exposure time: 10	tipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials			
а		to daphnia and other invertebrates (Chron- ty)	:	mg/l Exposure time: 28	s bahia (opossum shrimp)): > 0.001 - 0.01 6 d on data from similar materials			
	И-Facto oxicity)	or (Chronic aquatic	:	10				
	• •	ethrin (ISO):						
Т	Foxicity	to fish	:	LC50 (Cyprinodor mg/l	n variegatus (sheepshead minnow)): 0.00048			



/ersion 5.1	Revision Date: 28.09.2024		0S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
			Exposure time: 96	ô h
			LC50 (Oncorhync Exposure time: 96	chus mykiss (rainbow trout)): 0.00039 mg/l 5 h
	ty to daphnia and other ic invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0.0037 μg/l 3 h
			EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.0035 mg/l 3 h
			LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
	ctor (Acute aquatic tox-	:	1,000,000	
icity) Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 36	es promelas (fathead minnow)): 0.000022 6 d
			NOEC (Pimephal mg/l Exposure time: 26	es promelas (fathead minnow)): 0.000017 60 d
aquati	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 2 ²	magna (Water flea)): 0.0041 μg/l 1 d
ic toxi M-Fac toxicit	ctor (Chronic aquatic	:	1,000,000	
2,6-Di	i-tert-butyl-p-cresol:			
Toxici	ty to fish	:	Exposure time: 96	o (zebra fish)): > 0.57 mg/l 6 h e 67/548/EEC, Annex V, C.1.
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.24 2 h



Vers 5.1	sion	Revision Date: 28.09.2024	-	0S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
				Method: OECD Te	est Guideline 201
		or (Acute aquatic tox-	:	1	
	icity) Toxicity icity)	y to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 30 Method: OECD Te	
	aquatic	y to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.316 mg/l I d
		or (Chronic aquatic	:	1	
	toxicity) Toxicity to microorganisms		:	EC50: > 10,000 m Exposure time: 3 Method: OECD Te	ĥ
	Persis	tence and degradabili	ity		
	Compo	onents:			
	Xylene Biodeg	: radability	:		> 70 %
	Calciu	m dodecylbenzenesu	lph	onate:	
	Biodeg	radability	:	Result: Readily bi Remarks: Based o	odegradable. on data from similar materials
	Nonylp	ohenol, ethoxylated:			
	Biodeg	radability	:	Result: Not readily Remarks: Based of	y biodegradable. on data from similar materials
	deltam	ethrin (ISO):			
	Stability	y in water	:	Hydrolysis: 0 %(3	0 d)
		tert-butyl-p-cresol: radability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD To	1.5 %



rsion	Revision Date: 28.09.2024	SDS Number: 7730569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
ο.			
	cumulative potentia		
Com	oonents:		
	ne: on coefficient: n- ol/water	: log Pow: 3. Remarks: C	
Calci	um dodecylbenzenes	sulphonate:	
Bioac	cumulation		ration factor (BCF): < 500 ased on data from similar materials
	on coefficient: n- ol/water	: log Pow: 4. Remarks: C	
Nony	Iphenol, ethoxylated	:	
	on coefficient: n- ol/water	: log Pow: 4.4	48
	methrin (ISO):		
Bioac	cumulation		pomis macrochirus (Bluegill sunfish) ation factor (BCF): 1,800
	on coefficient: n- ol/water	: log Pow: 4.0	6
	i-tert-butyl-p-cresol:		
Bioac	cumulation		/prinus carpio (Carp) ration factor (BCF): 330 - 1,800
	on coefficient: n- ol/water	: log Pow: 5.	1
Mobi	lity in soil		
<u>Com</u>	oonents:		
Distril	methrin (ISO): oution among environ- al compartments	: log Koc: 7.2	2
	r adverse effects ata available		

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.



ersion 1	Revision Date: 28.09.2024	-	S Number: 30569-00010	Date of last issue: 06.04.2024 Date of first issue: 13.01.2021
			pose such cont of ignition. The	ze, cut, weld, braze, solder, drill, grind, or ex- ainers to heat, flame, sparks, or other source y may explode and cause injury and/or death specified: Dispose of as unused product.
ection 14	1: Transport information	on		
Intern	ational Regulations			
UNRT	DG			
ŪN nu		:	UN 1993	
Prope	r shipping name	:	FLAMMABLE L	IQUID, N.O.S.
<u></u>			(Xylene)	
Class		÷	3 III	
Labels	ng group	:	3	
	onmentally hazardous	÷	no	
ΙΑΤΑ-	-			
UN/ID	-		UN 1993	
	r shipping name	÷	Flammable liqu	id, n.o.s.
•	11 0		(Xylene)	
Class		:	3	
	ng group	:		
Labels	s ng instruction (cargo	:	Flammable Liq 366	JIGS
aircrat		•	300	
	ng instruction (passen-	:	355	
ger ai				
IMDG	-Code			
UN nu		:	UN 1993	
Prope	r shipping name	:	FLAMMABLE L	
				ethrin (ISO), 2,6-Di-tert-butyl-p-cresol)
Class		÷	3 III	
Labels	ng group s	÷	3	
EmS		÷	Б F-E, <u>S-E</u>	
Marin	e pollutant	:	yes	
Trans	port in bulk according	a to	Annex II of MA	RPOL 73/78 and the IBC Code
	oplicable for product as	-		
	nal Regulations			
	-			
NZS 5 UN nu			UN 1993	
	r shipping name	÷	FLAMMABLE L	IQUID, N.O.S.
		•	(Xylene)	
Class		:	3	
Packir	ng group	:	111	
	-			
Labels	s nem Code	:	3 3Y	



Version	Revision Date:	SDS Number:	Da
5.1	28.09.2024	7730569-00010	Da

Date of last issue: 06.04.2024 Date of first issue: 13.01.2021

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Chemical name	Environmental compartment	Reference concentration
xylene	Air	0.87 mg/m3
xylene	Water	0.6 mg/l

Environmental Exposure Limits (EEL)

Chemical name	Environmental compartment	Reference concentration
deltamethrin	Water	0.0004 μg/l

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

Section 16: Other information

Revision Date :	28.09.2024
Further information	
Sources of key data used to : compile the 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/
Date format :	dd.mm.yyyy
Full text of other abbreviation	S
ACGIH : ACGIH BEI : NZ BEI : NZ OEL :	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) New Zealand. Biological Exposure Indices New Zealand. Workplace Exposure Standards for Atmospher-



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	7730569-00010	Date of first issue: 13.01.2021

ic Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace 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 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 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.

NZ / EN