

Flumethrin (1%) Formulation

Version 5.8	Revision Date: 30.09.2023		S Number: 9085-00015	Date of last issue: 04.04.2023 Date of first issue: 25.02.2019					
SECTION	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION								
Produ	uct name	:	Flumethrin (1%)	Formulation					
Manu	facturer or supplier	s detai	ils						
Comp	bany	:	MSD						
Addre	ess	:	Rua Coronel Be Cruzeiro - Sao F	nto Soares, 530 Paulo - Brazil CEP 12730-340					
Telep	hone	:	908-740-4000						
Emer	gency telephone	:	1-908-423-6000						
E-ma	il address	:	EHSDATASTEV	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						
Flammable liquids	:	Category 3					
Acute toxicity (Oral)	:	Category 4					
Acute toxicity (Dermal)	:	Category 3					
Skin irritation	:	Category 2					
Eye irritation	:	Category 2A					
Reproductive toxicity	:	Category 1B					
Specific target organ toxicity - single exposure (Oral)	:	Category 2					
Specific target organ toxicity - repeated exposure	:	Category 2 (Auditory system)					
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2					
Aspiration hazard	:	Category 1					
Short-term (acute) aquatic hazard	:	Category 3					



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Long- hazar	term (chronic) aquatic d	: Category 3	
	label elements in acco rd pictograms	rdance with ABNT	NBR 14725 Standard
Signa	ll Word	: Danger	
Hazaı	rd Statements	H302 Harmfu H304 May be H311 Toxic ir H315 Causes H319 Causes H360D May c H371 May ca H373 May ca peated expos H373 May ca prolonged or	able liquid and vapor. I if swallowed. fatal if swallowed and enters airways. contact with skin. s skin irritation. s serious eye irritation. damage the unborn child. use damage to organs if swallowed. use damage to organs through prolonged or re- cure if swallowed. use damage to organs (Auditory system) throug repeated exposure. I to aquatic life with long lasting effects.
Preca	autionary Statements	P210 Keep at No smoking. P273 Avoid re P280 Wear p tion/ face prot	special instructions before use. way from heat/ sparks/ open flames/ hot surface elease to the environment. rotective gloves/ protective clothing/ eye protec- tection. IF SWALLOWED: Immediately call a POISON
	r hazards which do no	CENTER/ do P308 + P311 CENTER/ do	ctor. IF exposed or concerned: Call a POISON ctor.

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Paraffin oil	8012-95-1	Aspiration hazard, Category 1 Long-term (chronic) aquatic hazard, Category 4	>= 50 -< 70



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Xylen	le	1330-20-7	Flammable liquids, Category 3 Acute toxicity (Oral), Category 5 Acute toxicity (Inhala- tion), Category 5 Acute toxicity (Der- mal), Category 5 Skin irritation, Category 2 Eye irritation, Category 2A Specific target organ toxicity - single expo- sure, Category 3 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 3	>= 10 -< 20
Flume	ethrin	69770-45-2	Acute toxicity (Oral), Category 2 Acute toxicity (Der- mal), Category 1 Eye irritation, Category 2B Reproductive toxicity, Category 1B Specific target organ toxicity - single expo- sure (Oral), Category 1 Specific target organ toxicity - repeated exposure (Oral), Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 1 -< 2,5
Tolue	ene	108-88-3	Flammable liquids, Category 2 Acute toxicity (Inhala- tion), Category 5 Skin irritation, Category 2	>= 0,25 -< 1



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			Reproductive toxicity, Category 2 Specific target organ toxicity - single expo- sure, Category 3 Specific target organ toxicity - repeated exposure (Central nervous system), Cat- egory 2 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 3	

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 In case of skin contact	:	If inhaled, remove to fresh air. Get medical attention. 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.
In case of eye contact	:	Thoroughly clean shoes before reuse. 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. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. May damage the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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Notes	to physician	:	when the potentia	nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.
SECTION	5. FIRE-FIGHTING ME	ASU	IRES	
Suitat	ble extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
Unsui media	table extinguishing	:	High volume wate	r jet
	fic hazards during fire	:	fire. Flash back possib Vapors may form	I water stream as it may scatter and spread le over considerable distance. explosive mixtures with air. pustion products may be a hazard to health.
Hazar ucts	dous combustion prod-	:	Carbon oxides	
Speci ods	fic extinguishing meth-	:	cumstances and t Use water spray to Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	al protective equipment e-fighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SECTION	6. ACCIDENTAL RELE	ASI	EMEASURES	
tive ea	nal precautions, protec- quipment and emer- procedures	:		
Enviro	onmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:	Suppress (knock of jet. For large spills, pr containment to ke can be pumped, s container.	s should be used. absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable



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		disposal of th employed in t determine wh Sections 13 a	nal regulations may apply to releases and is material, as well as those materials and items he cleanup of releases. You will need to ich regulations are applicable. and 15 of this SDS provide information regarding or national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Techr	nical measures		ing measures under EXPOSURE PERSONAL PROTECTION section.
Local	/Total ventilation	: If sufficient ve ventilation. Use explosion	n-proof electrical, ventilating and lighting equip-
Advic	e on safe handling	Do not breath Do not swallo Do not get in Wash skin the Handle in acc practice, base assessment Non-sparking Keep contain Keep away fr other ignition Take precaut Do not eat, di	
Hygie	ne measures	flushing syste place. When using o Wash contam The effective engineering o appropriate d industrial hyg	chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
Cond	itions for safe storage	: Keep in prope Store locked Keep tightly o Keep in a coo Store in acco	erly labeled containers. up.
Mater	ials to avoid	: Do not store v Strong oxidizi	with the following product types: ng agents substances and mixtures kides blids juids



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		Substances and flammable gase Explosives Gases	bstances and mixtures d mixtures which in contact with water emit es xic substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Paraffin oil	8012-95-1	TWA (Inhalable particulate matter)	5 mg/m³	ACGIH	
Xylene	1330-20-7	LT	78 ppm 340 mg/m ³	BR OEL	
	Further informa	ation: Degree of	harmfulness: mediun	n	
		TWA	20 ppm	ACGIH	
Flumethrin	69770-45-2	TWA	45 µg/m3 (OEB 3)	Internal	
	Further informa	ation: Skin			
		Wipe limit	450 µg/100 cm ²	Internal	
Toluene	108-88-3	LT	78 ppm 290 mg/m³	BR OEL	
	Further information: Absorption through the skin, Degree of harm- fulness: medium				
		TWA	20 ppm	ACGIH	

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Xylene	1330-20-7	methyl hippuric acid	Urine	End of workday	1.5 mg/g creatinine	BR BEI
		Methylhippu ric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
Toluene	108-88-3	toluene	Blood	Start of the last working day of the week	0,02 mg/l	BR BEI
		toluene	Urine	End of workday	0,03 mg/l	BR BEI
		ortho-cresol	Urine	End of	0.3 mg/g	BR BEI



rsion	on Revision Date: 30.09.2023		Number: 085-00015	Date of last issue: 04.04.2023 Date of first issue: 25.02.2019				
I	1			I	workday	creatinine	I	
			Toluene	In blood	Prior to last shift of work- week	0,02 mg/l	ACGIH BEI	
			Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0,03 mg/l	ACGIH BEI	
			o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g creatinine	ACGIH BEI	
		A de pr C ar th co M				rdance with GMP principles to ad the environment. litable for controlling compounds rce and to prevent migration of d areas (e.g., open-face		
		e	se explosion-p quipment.		ai, ventilating	i and lighting		
	onal protective equip							
Filt	ratory protection ter type protection	ex re	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type					
Ma	aterial	: C	hemical-resista	ant gloves				
Re	emarks	fla	onsider double ammable, whic otection.				6	
Eye p	rotection	: W If M V	lear safety glas the work envir ists or aerosol lear a faceshie otential for dire	onment or a s, wear the a ld or other fu	ctivity involve appropriate g ull face prote	es dusty conc oggles. ction if there	is a	
Skin a	and body protection	: W A	erosols. /ork uniform or dditional body sk being perfo	garments sh	ould be used			



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				to avoid exposed skin surfaces. legowning techniques to remove potentially hing.
SECTIO	N 9. PHYSICAL AND CHI	EMIC		3
Арр	earance	:	Aqueous solutior	1
Cold	or	:	light brown, yello	W
Odd	pr	:	No data available	9
Odd	or Threshold	:	No data available	9
pН		:	No data available)
Mel	ting point/freezing point	:	No data available)
Initia rang	al boiling point and boiling ge	:	No data available	9
Flas	sh point	:	54 °C	
Eva	poration rate	:	No data available	
Flar	nmability (solid, gas)	:	Not applicable	
Flar	nmability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	9
	rer explosion limit / Lower Imability limit	:	No data available	
Vap	or pressure	:	No data available)
Rela	ative vapor density	:	No data available)
Rela	ative density	:	No data available)
Den	sity	:	0,820 - 0,900 g/c	m ³
	ubility(ies) Vater solubility	:	No data available	9
	ition coefficient: n-	:	Not applicable	
	nol/water Dignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	9
	cosity /iscosity, kinematic	:	No data available	



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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 availab	le
Partic	le size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors 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

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed. Toxic in contact with skin.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 404,59 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 402,36 mg/kg Method: Calculation method
Components:		
Paraffin oil:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal



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		toxicity
Xyler	ie:	
Acute	oral toxicity	: LD50 (Rat): 3.523 mg/kg Method: Directive 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	: LC50 (Rat): 27,571 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute	e dermal toxicity	: LD50 (Rabbit): > 4.200 mg/kg
Flum	ethrin:	
Acute	oral toxicity	: LD50 (Rat): > 20 mg/kg
		LD50 (Mouse): > 20 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > 2.934 mg/l
Acute	e dermal toxicity	: LD50 (Rat): > 5 mg/kg
Tolue	ene:	
	oral toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 28,1 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute	e dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg
_	corrosion/irritation	
	es skin irritation.	
	oonents:	
	fin oil:	
Speci Resu		: Rabbit : No skin irritation
Xyler	le:	
Speci	es	: Rabbit
Resu	lt	: Skin irritation
Flum	ethrin:	
Resu	lt	: No skin irritation
Tolue	ene:	
Speci		: Rabbit
Metho	bd	: Directive 67/548/EEC, Annex V, B.4.
Resu	lt	: Skin irritation



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Sa	rious eye damage/eye ir	ritati	on	
	uses serious eye irritation			
Co	mponents:			
Ра	raffin oil:			
	ecies sult	:	Rabbit No eye irritation	
Ху	lene:			
Sp	ecies sult	:	Rabbit Irritation to eyes,	reversing within 21 days
Flu	umethrin:			
Re	sult	:	Mild eye irritation	
То	luene:			
	ecies	:	Rabbit	
-	esult ethod	:	No eye irritation OECD Test Guide	eline 405
Re	spiratory or skin sensiti	zatio	n	
-	in sensitization t classified based on avail	able	information.	
	spiratory sensitization t classified based on avail	able	information.	
<u>Cc</u>	omponents:			
Ху	lene:			
	st Type	:	Local lymph node	e assay (LLNA)
	outes of exposure ecies	:	Skin contact Mouse	
Re	sult	:	negative	

Toluene:

Test Type :	Maximization Test
Routes of exposure :	Skin contact
Species :	Guinea pig
Method :	Directive 67/548/EEC, Annex V, B.6.
Result :	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Xylene:



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Geno	ptoxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
		Test Type: Ch Result: negativ	romosome aberration test in vitro
		Test Type: In v Result: negativ	vitro mammalian cell gene mutation test
		Test Type: In v malian cells Result: negativ	vitro sister chromatid exchange assay in mam-
Geno	otoxicity in vivo	Species: Mous	oute: Skin contact
Flum	ethrin:		
	otoxicity in vitro		crobial mutagenesis assay (Ames test) Salmonella typhimurium cal
		Test system: C Result: positiv	romosomal aberration Chinese hamster ovary cells e classified due to inconclusive data.
			romosomal aberration Iuman lymphocytes ve
		Test Type: in v Test system: N Result: negativ	
	n cell mutagenicity - ssment	: Weight of evid cell mutagen.	ence does not support classification as a germ
Tolu	ene:		
	otoxicity in vitro	: Test Type: In Result: negativ	vitro mammalian cell gene mutation test ve
		Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
Genc	otoxicity in vivo	cytogenetic tes Species: Rat	tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) pute: Intraperitoneal injection ve
		Test Type: Ro Species: Mous	dent dominant lethal test (germ cell) (in vivo) se



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				e: inhalation (vapor) Test Guideline 478
	nogenicity assified based on availa	ahla	information	
	oonents:	1010		
Xylen	le:			
Speci Applic	es cation Route sure time	: : :	Rat Ingestion 103 weeks negative	
Flum	ethrin:			
	cation Route sure time EL		Rat Oral 2 Years 0,5 mg/kg body v negative	veight
Carcir ment	nogenicity - Assess-	:	Weight of eviden cinogen	ce does not support classification as a car
Tolue	ene:			
	cation Route sure time	: : :	Rat inhalation (vapor 103 weeks negative)
	cation Route sure time		Mouse Skin contact 24 Months negative	
-	oductive toxicity			
	lamage the unborn child conents:	1.		
Xylen				
-	s on fertility	:	Species: Rat	generation reproduction toxicity study e: inhalation (vapor)
Effect	s on fetal development	:	Species: Rat	yo-fetal development e: inhalation (vapor)



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Flume	thrin:				
	on fetal development	:	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 0,36 mg/kg body weig Result: Maternal toxicity observed., Reduced offspring gain., Fetal abnormalities.		
			Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 0,5 mg/kg body weight Result: Maternal toxicity observed., Skeletal malformations., Reduced fetal weight.		
			Test Type: Develo Species: Rabbit Application Route Developmental To Result: No teratog	: Oral oxicity: NOAEL: 1,7 mg/kg body weight	
Reproc sessme	ductive toxicity - As- ent	:	May damage the	unborn child.	
Toluer	ne:				
Effects	on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416	
Effects	on fetal development	:	Species: Rat	ro-fetal development : inhalation (vapor)	
Reproc sessme	ductive toxicity - As- ent	:	Some evidence o animal experimen	f adverse effects on development, based on ts.	
	single exposure ause damage to organs	if s	wallowed.		
Compo	onents:				
Xylene	:				
Assess	sment	:	May cause respira	atory irritation.	
Flume	thrin:				
Routes Assess	s of exposure sment	:	Oral Causes damage t	o organs.	
Toluer	ne:				
Assess	sment	:	May cause drows	iness or dizziness.	



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N N	/lay ca /lay ca	use damage to organs			repeated exposure if swallowed. bugh prolonged or repeated exposure.
<u>C</u>	Compo	nents:			
	(ylene:				
Т		of exposure Organs ment	:	inhalation (vapor) Auditory system Shown to produce centrations of >0.	e significant health effects in animals at con- 2 to 1 mg/l/6h/d.
F	lumet	hrin:			
	Routes	of exposure ment	:	Oral Causes damage t exposure.	o organs through prolonged or repeated
т	oluen	e:			
R T	Routes	of exposure Organs	:	Inhalation Central nervous s May cause damag exposure.	ystem ge to organs through prolonged or repeated
R	Repeat	ed dose toxicity			
<u>C</u>	Compo	nents:			
Р	Paraffii	n oil:			
L A		s tion Route re time	:	Rat, female 161 mg/kg Ingestion 90 Days	
x	(ylene:				
S L A E	Species OAEL Applica	tion Route re time	:	Rat > 0,2 - 1 mg/l inhalation (vapor) 13 Weeks Based on data fro	m similar materials
L A		s tion Route re time	:	Rat 150 mg/kg Ingestion 90 Days	
F	lumet	hrin:			
S N A	Species NOAEL Applica	3	:	Rat 0,7 mg/kg Oral 13 Weeks	



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Target Organs Symptoms		:	digestive system, decrease in appe	Skin tite, Skin disorders
Species NOAEL Application Route Exposure time Target Organs Symptoms		:	Dog 0,88 mg/kg Oral 13 Weeks digestive system, Hair, Skin decrease in appetite, Skin disorders	
	es	:	Rat 1,875 mg/l inhalation (vapor) 6 Months	1
		:	Rat 625 mg/kg Ingestion 13 Weeks	

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Paraffin oil:

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.

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.

Toluene:

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:

Toluene:

Inhalation

: Target Organs: Central nervous system Symptoms: Neurological disorders



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CTION	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	xicity			
	oonents:			
Paraff	fin oil:			
Toxici	ty to fish	:	Exposure time: 96 Test substance: V	nus maximus (turbot)): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: 48 Test substance: V	sa (Calanoid copepod)): > 100 mg/l 3 h Vater Accommodated Fraction on data from similar materials
Toxici [;] plants	ty to algae/aquatic	:	Exposure time: 72 Test substance: V	na costatum (marine diatom)): > 100 mg/l 2 h Vater Accommodated Fraction on data from similar materials
			Exposure time: 72 Test substance: V	ema costatum (marine diatom)): > 1 mg/l 2 h Vater Accommodated Fraction on data from similar materials
Xylen	e:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13,5 mg/l ১h
	ty to daphnia and other c invertebrates	:	Exposure time: 24 Method: OECD T	
Toxici [;] plants	ty to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 10 mg/l 2 h
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 38 Method: OECD T	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 ² Method: OECD T	
Toxici	ty to microorganisms	:	NOEC: > 100 mg/ Exposure time: 3 Method: OECD T Remarks: Based	h



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Flume	hrin:			
Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Danio re Exposure time: ²	erio (zebra fish)): 0,046 mg/l 144 h
M-Fact toxicity	or (Chronic aquatic)	:	1	
Toluer	e:			
Toxicity	/ to fish	:	LC50 (Oncorhyr Exposure time: 9	nchus kisutch (coho salmon)): 5,5 mg/l 96 h
	/ to daphnia and other invertebrates	:	EC50 (Ceriodap Exposure time: 4	hnia dubia (water flea)): 3,78 mg/l 48 h
Toxicity plants	/ to algae/aquatic	:	NOEC (Skeletor Exposure time: 7	nema costatum (marine diatom)): 10 mg 72 h
Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Oncorhy Exposure time: 4	/nchus kisutch (coho salmon)): 1,39 mg/ 40 d
	/ to daphnia and other invertebrates (Chron-	:	NOEC (Cerioda) Exposure time: 7	phnia dubia (water flea)): 0,74 mg/l 7 d
	/ to microorganisms	:	EC50 (Nitrosom Exposure time: 2	onas sp.): 84 mg/l 24 h
Persis	tence and degradabili	ty		
Compo	onents:			
Xylene	:			
Biodeg	radability	:		> 70 %
Toluer	e:			
Biodeg	radability	:	Result: Readily I Biodegradation: Exposure time: 2	80 %
Bioaco	umulative potential			
<u>Compo</u>	onents:			
Paraffi	n oil:			
	n coefficient: n-	:	log Pow: > 4 Remarks: Calcu	lation
V. I.	:			
Xylene				



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Partiti	ethrin: ion coefficient: n- ol/water	: log Pow: 6,2	
Tolue	ene:		
Bioac	cumulation	•	iciscus idus (Golden orfe) ition factor (BCF): 90
	ion coefficient: n- ol/water	: log Pow: 2,7	3
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	FLAMMABLE LIQUID, TOXIC, N.O.S.
Class	:	(Xylene, Flumethrin) 3
Subsidiary risk	-	6.1
Packing group	:	III
Labels	:	3 (6.1)
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 1992
Proper shipping name	:	Flammable liquid, toxic, n.o.s. (Xylene, Flumethrin)
Class	:	3
Subsidiary risk	:	6.1
Packing group	:	III
Labels	:	Flammable Liquids, Toxic
Packing instruction (cargo	:	366



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	aircraft) Packing ger airc	g instruction (passen-	:	355	
	IMDG-Code UN number Proper shipping name		:	UN 1992 FLAMMABLE LIC (Xylene, Flumethr	UID, TOXIC, N.O.S. in)
	Class		:	3	,
	Subsidiary risk		:	6.1	
	Packing group		:		
	Labels		:	3 (6.1)	
	EmS C	ode	:	F-E, S-D	
	Marine	pollutant	:	no	

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

Not applicable for product as supplied.

Domestic regulation

ANTT UN number Proper shipping name	:	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene, Flumethrin)
Class	:	3
Subsidiary risk	:	6.1
Packing group	:	III
Labels	:	3 (6.1)
Hazard Identification Number	:	36

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

National List of Carcinogenic Agents for Humans - (LINACH)	:	Not applicable
Brazil. List of chemicals controlled by the Federal Police	:	Xylene

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

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

SECTION 16. OTHER INFORMATION



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	Revisio Date fo		:	30.09.2023 dd.mm.yyyy			
	Furthe	r information					
	Sources of key data used to : compile the Material Safety Data Sheet		:	 Internal technical data, data from raw material SDSs, e eChem Portal search results and European Chemicals cy, http://echa.europa.eu/ 			
	Full text of other abbreviati		ons				
	ACGIH		:		eshold Limit Values (TLV)		
	ACGIH BR BEI		:	Brazil. NR7. Para	al Exposure Indices (BEI) meters for Biological Control of Occupational e Chemical Agents		
	BR OE	L	:	•	healthy activities and operations		
	ACGIH BR OE		:	8-hour, time-weig Up to 48 hours /w	-		

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





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SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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