

Flumethrin (2%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.1	30.09.2023	10225129-00006	Date of first issue: 12.11.2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Flumethrin (2%) Formulation					
Manufacturer or supplier's details							
Company name of supplier	:	MSD					
Address	:	126 E. Lincoln Avenue					
		Rahway, New Jersey U.S.A. 07065					
Telephone	:	908-740-4000					
Emergency telephone	:	1-908-423-6000					
E-mail address	:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use							
Recommended use	:	Veterinary product					
Restrictions on use	:	Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 3
Acute toxicity (Dermal)	:	Category 2
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure (Oral)	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Auditory system)
Aspiration hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H310 Fatal in contact with skin.



ersion 1	Revision Date: 30.09.2023	SDS Number: 10225129-00006	Date of last issue: 04.04.2023 Date of first issue: 12.11.2021
		H360D May dan H370 Causes da H372 Causes da exposure if swal H373 May cause	erious eye irritation. nage the unborn child. amage to organs if swallowed. amage to organs through prolonged or repeated
Preca	utionary Statements	Prevention:	
		P202 Do not had and understood P260 Do not bre P262 Do not get P264 Wash skin P270 Do not eat	ecial instructions before use. ndle until all safety precautions have been read eathe mist or vapors. t in eyes, on skin, or on clothing. t thoroughly after handling. t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protection
		POISON CENTI P302 + P352 + I Immediately call P305 + P351 + I for several minu to do. Continue P308 + P311 IF CENTER/ docto P331 Do NOT ir P332 + P313 If s tion. P337 + P313 If s tion.	exposed or concerned: Call a POISON r. aduce vomiting. skin irritation occurs: Get medical advice/ atten- eye irritation persists: Get medical advice/ atter ske off immediately all contaminated clothing ar
		Storage:	
		P405 Store lock	ed up.
		Disposal: P501 Dispose o posal plant.	f contents/ container to an approved waste dis-
	hazards prm explosive dust-air	mixture during process	sing, handling or other means.

• •		
Components		
Chemical name	CAS-No.	Concentration (% w/w)



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SECTION 4. FIRST AID MEASURES

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Paraff	in oil	8	012-95-1	>= 50 -< 70
Xylen	е	1	330-20-7	>= 10 -< 20
Flume	ethrin	6	9770-45-2	>= 1 -< 5

	-0	
General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes.
In case 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. 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	:	Toxic if swallowed. May be fatal if swallowed and enters airways. Fatal in contact with skin. Causes skin irritation. Causes serious eye irritation. May damage the unborn child. Causes damage to organs if swallowed. Causes damage to organs through prolonged or repeated exposure 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, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.



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	Hazard ucts	ous combustion prod-	:	Carbon oxides		
	Specific ods	c extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir- 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.		
	Special for fire-	protective equipment fighters	:	Evacuate area.	e, wear self-contained breathing apparatus. ective equipment.	
SEC	CTION 6	. ACCIDENTAL RELE	ASI	EMEASURES		
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	nel to safe areas. Innel should re-enter the area. Ing advice (see section 7) and personal ent recommendations (see section 8).	
	Enviror	nmental 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	
		ls and materials for ment and cleaning up	:	Avoid dispersal of with compressed of Dust deposits sho surfaces, as these released into the a For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. dust in the air (i.e., clearing dust surfaces air). uld not be allowed to accumulate on a may form an explosive mixture if they are atmosphere in sufficient concentration. rovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.



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Advic	e on safe handling	Do not breath Do not swallow Do not get in e Wash skin tho Handle in acco practice, base assessment Keep containe Keep containe Keep away fro Take precautio Do not eat, dri	
Hygie	ene measures	: If exposure to flushing system place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working o 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, ene monitoring, medical surveillance and the strative controls.
Cond	itions for safe storage	: Keep in prope Store locked u Keep tightly cl	rly labeled containers. p.
Mate	rials to avoid	: Do not store w Strong oxidizin Self-reactive s Organic perox Flammable liq Flammable so Pyrophoric liq Pyrophoric so Self-heating s	with the following product types: Ing agents Ing agents Indes

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	VLE-PPT (Mist)	5 mg/m³	NOM-010- STPS-2014
		TWA	5 mg/m³	ACGIH



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			(Inhalable particulate matter)		
Xylen	e	1330-20-7	VLE-PPT	100 ppm	NOM-010- STPS-2014
			VLE-CT	150 ppm	NOM-010- STPS-2014
			TWA	20 ppm	ACGIH
Flume	ethrin	69770-45-2	TWA	45 µg/m3 (OEB 3)	Internal
		Further informa	ation: Skin		·
			Wipe limit	450 µg/100 cm ²	Internal

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Xylene	1330-20-7	Methylhippu ric acid	Urine	End of shift	1.5 g/g creatinine	MX BEI
		Methylhippu ric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI

Engineering measures : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling. Personal protective equipment - - - -. eniratory protectio -1 ...

Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type Hand protection	:	Combined particulates and organic vapor type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.



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Skir	Skin and body protection		task being perform disposable suits)	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. degowning techniques to remove potentially
SECTIO	N 9. PHYSICAL AND CHI	EMI		S
Арр	pearance	:	liquid	
Col	or	:	light brown	
Odd	or	:	odorized	
Odd	or Threshold	:	No data available	9
pН		:	No data available	9
Mel	ting point/freezing point	:	No data available	e
Initi rang	al boiling point and boiling ge	:	No data available	9
Flas	sh point	:	No data available	9
Eva	poration rate	:	No data available	9
Flar	nmability (solid, gas)	:	May form explos handling or other	ive dust-air mixture during processing, means.
Flar	nmability (liquids)	:	Not applicable	
	per explosion limit / Upper nmability limit	:	No data available	9
	ver explosion limit / Lower nmability limit	:	No data available	9
Vap	oor pressure	:	No data available	9
Rela	ative vapor density	:	No data available	9
Rela	ative density	:	No data available	9
Der	nsity	:	0.750 - 0.950 g/c	cm ³
	ubility(ies) Water solubility	:	No data available	e
	tition coefficient: n-	:	Not applicable	
	anol/water oignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	9



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	osity scosity, kinematic osive properties	-	No data available Not explosive	e	
	Oxidizing properties Molecular weight		The substance or mixture is not classified as oxidizing. No data available		
Particle size :		:	Not applicable		

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Stable unde May form ex handling or	d as a reactivity hazard. r normal conditions. plosive dust-air mixture during processing, other means. ith strong oxidizing agents.
Conditions to avoid	Heat, flames Avoid dust f	s and sparks. ormation.
Incompatible materials Hazardous decomposition	Oxidizing ag	ents us decomposition products are known.
products		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Toxic if swallowed. Fatal in contact with skin.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 186.2 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: 185.64 mg/kg Method: Calculation method



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Comp	oonents:			
Paraf	fin oil:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	dermal toxicity		LD50 (Rabbit): : Assessment: Th toxicity	> 2,000 mg/kg ne substance or mixture has no acute dermal
Xylen	e:			
Acute	oral toxicity		LD50 (Rat): 3,5 Method: Directiv	23 mg/kg ve 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity		LC50 (Rat): 27. Exposure time: Test atmospher	4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 4,200 mg/kg
Flum	ethrin:			
Acute	oral toxicity	:	LD50 (Rat): > 2	0 mg/kg
			LD50 (Mouse):	> 20 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2	,934 mg/l
Acute	dermal toxicity	:	LD50 (Rat): > 5	mg/kg
Skin	corrosion/irritation			
Cause	es skin irritation.			
<u>Comp</u>	oonents:			
Paraf	fin oil:			
Speci Resul			Rabbit No skin irritatior	1
Xylen	e:			
Speci		:	Rabbit	
Resul	t	:	Skin irritation	
Flum	ethrin:			
Resul	t	:	No skin irritatior	1
	us eye damage/eye es serious eye irritatio		n	
	oonents:	/· I.		
	fin oil:			
Speci	-	:	Rabbit	



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Res	sult	: N	o eye irritation	
-	ene: ecies	· D	abbit	
Res				reversing within 21 days
Flu	methrin:			
Res	sult	: M	ild eye irritation	
Res	spiratory or skin sensi	tization		
-	n sensitization			
	classified based on ava	ilable info	ormation.	
	spiratory sensitization			
	classified based on ava	ulable info	ormation.	
<u>Cor</u>	<u>nponents:</u>			
-	ene:			
	t Type ites of exposure		ocal lymph node kin contact	assay (LLNA)
	ecies		ouse	
Res		: ne	egative	
Not	m cell mutagenicity classified based on ava nponents:	ilable info	ormation.	
Xyl	ene:			
Ger	notoxicity in vitro		est Type: Bacter esult: negative	ial reverse mutation assay (AMES)
			est Type: Chrom esult: negative	osome aberration test in vitro
			est Type: In vitro esult: negative	mammalian cell gene mutation test
		m	est Type: In vitro alian cells esult: negative	sister chromatid exchange assay in mam-
Ger	notoxicity in vivo	SI Al	est Type: Roden becies: Mouse oplication Route esult: negative	t dominant lethal test (germ cell) (in vivo) : Skin contact
Flu	methrin:			
	notoxicity in vitro			ial mutagenesis assay (Ames test) nonella typhimurium



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			Result: equivocal					
			Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: positive Remarks: Not classified due to inconclusive data.					
			Test Type: Chron Test system: Hun Result: negative	nosomal aberration nan lymphocytes				
			Test Type: in vitro Test system: Mou Result: negative	o micronucleus test ise				
	cell mutagenicity - sment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ				
Not cl	nogenicity assified based on availa ponents:	ble	information.					
	es ation Route sure time	:	Rat Ingestion 103 weeks negative					
Flume	ethrin:							
Specie Applic	es cation Route sure time EL	:	Rat Oral 2 Years 0.5 mg/kg body w negative	reight				
Carcir ment	nogenicity - Assess-	:	Weight of evidence does not support classification as a c cinogen					
May d	oductive toxicity lamage the unborn child							
	oonents:							
Xylen Effect	e: s on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor)				
Effect	s on fetal development	:	Species: Rat	vo-fetal development :: inhalation (vapor)				
			11 / 18					



rsion	Revision Date: 30.09.2023	-	OS Number: 225129-00006	Date of last issue: 04.04.2023 Date of first issue: 12.11.2021
Flum	ethrin:			
	s on fetal development	: :		te: Oral Foxicity: NOAEL: 0.36 mg/kg body weight I toxicity observed., Reduced offspring weigh
			Test Type: Deve Species: Rat Application Rou	e: Oral
				Toxicity: NOAEL: 0.5 mg/kg body weight I toxicity observed., Skeletal malformations., eight.
			Test Type: Deve Species: Rabbit Application Rou Developmental Result: No terate	e: Oral Foxicity: NOAEL: 1.7 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	May damage the	e unborn child.
	-single exposure	0.40	lowed	
	es damage to organs if conents:	swa	lowed.	
Xyler	le:			
Asses	ssment	:	May cause resp	iratory irritation.
Flum	ethrin:			
	es of exposure ssment	:	Oral Causes damage	to organs.
Caus				peated exposure if swallowed. rough prolonged or repeated exposure.
Com	oonents:			
Xyler	le:			
	es of exposure et Organs	:	inhalation (vapo Auditory system	
-	ssment	:	Shown to produ	ce significant health effects in animals at cor 0.2 to 1 mg/l/6h/d.
Flum	ethrin:			
	es of exposure ssment	:	Oral	to organs through prolonged or repeated



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<mark>Co</mark> Pai Spe LO App	peated dose toxicity mponents: raffin oil: ecies AEL plication Route posure time	: Rat, female : 161 mg/kg : Ingestion : 90 Days	
Spe LO Apj Exp Rei Spe LO	ene: ecies AEL olication Route oosure time marks ecies AEL olication Route oosure time	: Rat : > 0.2 - 1 mg/l : inhalation (va : 13 Weeks : Based on dat : Rat : 150 mg/kg : Ingestion : 90 Days	
Spe NO Apj Exp Tar Syr NO Apj Exp Tar	methrin: ecies AEL polication Route cosure time rget Organs mptoms ecies AEL polication Route cosure time rget Organs mptoms	: Dog : 0.88 mg/kg : Oral : 13 Weeks : digestive syst	tem, Skin ippetite, Skin disorders tem, Hair, Skin ippetite, Skin disorders
۸e	niration toxicity		

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.



/ersion 2.1	Revision Date: 30.09.2023	SDS Number: 10225129-00006		Date of last issue: 04.04.2023 Date of first issue: 12.11.2021				
SECTION 1	ECTION 12. ECOLOGICAL INFORMATION							
Ecoto	xicity							
<u>Comp</u>	onents:							
Paraff	in oil:							
Toxicit	y to fish	:	Exposure time: 96 Test substance: V	hus maximus (turbot)): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials				
	y 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				
Toxicit plants	y 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				
Xylene	e:							
-	y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13.5 mg/l } h				
	y to daphnia and other c invertebrates	:	Exposure time: 24 Method: OECD Te					
Toxicit plants	y to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): 10 mg/l 2 h				
Toxicit icity)	y to fish (Chronic tox-	:	Exposure time: 35 Method: OECD To					
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21 Method: OECD Te					
Toxicit	y to microorganisms	:	NOEC: > 100 mg/ Exposure time: 3 Method: OECD To Remarks: Based of	h				



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Flum	nethrin:			
Toxic icity)	city to fish (Chronic tox-	:	NOEC (Danio rerio (zebra fish)): 0.046 mg/l Exposure time: 144 h	
Pers	istence and degradab	ility		
<u>Com</u>	ponents:			
Xyle	ne:			
Biode	Biodegradability		Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials	
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	ffin oil:			
	tion coefficient: n- nol/water	:	log Pow: > 4 Remarks: Calcu	lation
Xyle	ne:			
	tion coefficient: n- nol/water	:	log Pow: 3.16 Remarks: Calcu	lation
Flum	ethrin:			
	tion coefficient: n- nol/water	:	log Pow: 6.2	
	ility in soil ata available			
	r adverse effects ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	: Do not dispose of waste into sewer.	
	Dispose of in accordance with local regulations.	
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.	
	If not otherwise specified: Dispose of as unused product.	

SECTION 14. TRANSPORT INFORMATION

International Regulations	
UNRTDG	
LIN Luciuma ha air	



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Class Packir Labels	Proper shipping name Class Packing group Labels Environmentally hazardous		TOXIC LIQUID, C (Flumethrin) 6.1 II 6.1 no	DRGANIC, N.O.S.	
UN/ID Prope Class Packir Labels Packir aircraf Packir	IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		 UN 2810 Toxic liquid, organic, n.o.s. (Flumethrin) 6.1 II Toxic 662 654 		
Class Packir Labels EmS (mber r shipping name ng group	::	UN 2810 TOXIC LIQUID, C (Flumethrin) 6.1 II 6.1 F-A, S-A yes	DRGANIC, N.O.S.	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.					
Dome	stic regulation				
UN nu	002-SCT mber r shipping name	:	UN 2810 TOXIC LIQUID, C	DRGANIC, N.O.S.	

UN 2810
TOXIC LIQUID, ORGANIC, N.O.S. (Flumethrin)
6.1
II
6.1

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

NOM-165-SEMARNAT-2013, Norm establishing a list of substances subject to report for the Registry of Emissions and Pollutant Transfer Components CAS-No. MPU (kg/year) Transfer/Release

(kg/year)



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Х	Xylene			1330-20-7	5000 kg/year	1000 kg/year		
n	MPU: Applicable reporting threshold when the substance, pure or in mixture in a composition of more than 1% by weight, is used for industrial activities at facilities that are subject to report or are produced by them							
е	Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.							
The ingredients of this product are reported in the following inventories:								
	DSL		:	not determined				
II	ECSC		:	not determined				

SECTION 16. OTHER INFORMATION

Revision Date Date format	-	30.09.2023 dd.mm.yyyy					
Full text of other abbreviations							
ACGIH ACGIH BEI MX BEI	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for workers occupational- ly exposed to chemical agents					
NOM-010-STPS-2014	:	Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits					
ACGIH / TWA	:	8-hour, time-weighted average					
NOM-010-STPS-2014 / VLE- PPT	:	Time weighted average limit value					
NOM-010-STPS-2014 / VLE- CT	:	Short term exposure limit value					

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



Flumethrin (2%) Formulation

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Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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