

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Flumethrin (1%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.0	06.04.2024	4019126-00016	Date of first issue: 25.02.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Flumethrin (1%) Formulation
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 Acute toxicity, Category 4 Acute toxicity, Category 3 Skin irritation, Category 2 Eye irritation, Category 2 Reproductive toxicity, Category 1B Specific target organ toxicity - single exposure, Category 2 Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1

Long-term (chronic) aquatic hazard, Category 3

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360D: May damage the unborn child.
H371: May cause damage to organs.

H373: May cause damage to organs through prolonged or repeated exposure. H304: May be fatal if swallowed and enters airways. H412: Harmful to aquatic life with long lasting ef-

fects.

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2.2 Label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	 H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H360D May damage the unborn child. H371 May cause damage to organs. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	 Prevention: P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response:
		P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label: Paraffin oil Xylene Flumethrin

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		· · ·
	Registration number		
Paraffin oil	8012-95-1 232-384-2	Asp. Tox. 1; H304 Aquatic Chronic 4;	>= 50 - < 70
		H413	
Xylene	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H315 STOT SE 3; H335 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity estimate	>= 10 - < 20
		Acute inhalation toxicity (vapour): 11 mg/l Acute dermal toxici- ty: 1.100 mg/kg	
Flumethrin	69770-45-2 274-110-4	Acute Tox. 2; H300 Acute Tox. 1; H310 Eye Irrit. 2; H319 Repr. 1B; H360D STOT SE 1; H370 STOT RE 1; H372 Aquatic Chronic 1; H410 M-Factor (Chronic	>= 1 - < 2,5
		Acute toxicity esti-	
		Acute dermal toxici-	



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Tolue	ne	108-88-3 203-625-9 601-021-00	ty: 5,01 mg/kg Flam. Liq. 2; H225 >= 0,25 - < 1 Skin Irrit. 2; H315 -3 Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1 Description of mist ald medsur	
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.
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).
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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 centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and	effects, both acute and delayed
Risks	Harmful if swallowed.

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Versi 5.0	on	Revision Date: 06.04.2024		9S Number: 19126-00016	Date of last issue: 30.09.2023 Date of first issue: 25.02.2019
				Causes skin irrita Causes serious e May damage the May cause damage May cause damage exposure.	ye irritation. unborn child.
	n dicatio Treatmo	•	mec :		d special treatment needed cally and supportively.
SEC	TION (5: Firefighting meas	sure	es	
5.1 E	xtingui	ishing media			
ŝ	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	High volume wate	er jet
5.2 S	pecial	hazards arising from	the	substance or mi	xture
	Specific fighting	hazards during fire-	:	fire. Flash back possik Vapours may form	d water stream as it may scatter and spread ble over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
5.3 A	dvice f	for firefighters			
Ş		protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Remove all sources of ignition.	
		Use personal protective equipment.	
		Follow safe handling advice (see section 7) and personal pro-	

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		tective equipm	ent recommendations (see section 8).
6.2 Enviro	nmental precautions		
Enviro	nmental precautions	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ling over a wide area (e.g. by containment or oil cose of contaminated wash water. es should be advised if significant spillages ained.
6.3 Method	ds and material for co	ntainment and clea	ning up
Metho	ds for cleaning up	Soak up with ir Suppress (kno spray jet. For large spills ment to keep n be pumped, sto Clean up rema bent. Local or nation posal of this m employed in th mine which reg Sections 13 an	ools should be used. hert absorbent material. ck down) gases/vapours/mists with a water , provide dyking or other appropriate contain- naterial from spreading. If dyked material can bre recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- julations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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.
Advice on safe handling	: Do not get on skin or clothing.
C C	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 safety
	practice, based on the results of the workplace exposure as- sessment
	Non-sparking tools should be used.
	Keep container tightly closed.

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Hygiene measures		:	 Keep away from heat, hot surfaces, sparks, open flam other ignition sources. No smoking. Take precautionary measures against static discharge Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize releat environment. If exposure to chemical is likely during typical use, proflushing systems and safety showers close to the wort place. When using do not eat, drink or smoke. Wash nated clothing before re-use. The effective operation of a facility should include revengineering controls, proper personal protective equip appropriate degowning and decontamination procedure industrial hygiene monitoring, medical surveillance arruse of administrative controls. 			
7.2 Cor	nditions for safe storage,	inc	luding any incom	patibilities		
Requirements for storage areas and containers		:	: Keep in properly labelled containers. Store locked up. tightly closed. Keep in a cool, well-ventilated place. Sta accordance with the particular national regulations. Ke away from heat and sources of ignition.			
Advice on common storage		:	 Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which in contact with water, emit flammable gases Explosives Gases Very acutely toxic substances and mixtures 			
7.3 Spe	ecific end use(s)					
-						

Specific use(s)

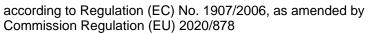
: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

	Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Π	Paraffin oil	8012-95-1	TWA (Vapour)	50 mg/m3	FOR-2011- 12-06-1358
Π			TWA (Mist and particles)	1 mg/m3	FOR-2011- 12-06-1358
Π	Xylene	1330-20-7	TWA	25 ppm	FOR-2011-





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				108 mg/m3	12-06-1358				
		Further inform	Further information: Chemicals that can be absorbed through the skin.						
			TWA	50 ppm	2000/39/EC				
				221 mg/m3					
		Further inforr	nation: Identifies	the possibility of significant upta	ke through the				
		skin, Indicativ	/e		-				
			STEL	100 ppm	2000/39/EC				
				442 mg/m3					
		Further inform	Further information: Identifies the possibility of significant uptake through the						
		skin, Indicativ	-						
Flume	ethrin	69770-45-2	TWA	45 μg/m3 (OEB 3)	Internal				
		Further information: Skin							
			Wipe limit	450 μg/100 cm ²	Internal				
Tolue	ne	108-88-3	TŴA	25 ppm	FOR-2011-				
				94 mg/m3	12-06-1358				
		Further information: Chemicals that can be absorbed through the sl							
			TWA	50 ppm	2006/15/EC				
				192 mg/m3					
		Further information: Indicative, Identifies the possibility of significant uptake							
		through the s	kin		·				
		-	STEL	100 ppm	2006/15/EC				
				384 mg/m3					
		Further inform	nation: Indicative	e, Identifies the possibility of sign	ificant uptake				
		through the skin							

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Xylene	Workers	Inhalation	Long-term systemic effects	221 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
	Workers	Inhalation	Long-term local ef- fects	221 mg/m3
	Workers	Inhalation	Acute local effects	442 mg/m3
	Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	65,3 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	65,3 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
Glycerides, mixed decanoyl and oc- tanoyl	Workers	Inhalation	Long-term systemic effects	177,79 mg/m3



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		Workers	Skin contact	Long-term systemic effects	25,21 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	43,84 mg/m3
		Consumers	Skin contact	Long-term systemic effects	12,61 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	12,61 mg/kg bw/day
Paraf	fin oil	Workers	Inhalation	Long-term systemic effects	5 mg/m3
		Workers	Inhalation	Short-term exposure	5 mg/m3
		Workers	Inhalation	Long-term local ef- fects	5 mg/m3
		Workers	Inhalation	Acute local effects	5 mg/m3
Tolue	ne	Workers	Inhalation	Acute systemic ef- fects	384 mg/m3
		Workers	Inhalation	Acute local effects	384 mg/m3
		Workers	Skin contact	Long-term systemic effects	384 mg/kg bw/day
		Workers	Inhalation	Long-term systemic effects	192 mg/m3
		Workers	Inhalation	Long-term local ef- fects	192 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	226 mg/m3
		Consumers	Inhalation	Acute local effects	226 mg/m3
		Consumers	Skin contact	Long-term systemic effects	226 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	56,5 mg/m3
		Consumers	Ingestion	Long-term systemic effects	8,13 mg/kg bw/day
		Consumers	Inhalation	Long-term local ef- fects	56,5 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Xylene	Fresh water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
	Marine water	0,327 mg/l
	Sewage treatment plant	6,58 mg/l
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Marine sediment	12,46 mg/kg dry weight (d.w.)
	Soil	2,31 mg/kg dry weight (d.w.)
Glycerides, mixed decanoyl and octanoyl	Oral (Secondary Poisoning)	0,03 mg/kg food
Toluene	Fresh water	0,68 mg/l
	Marine water	0,68 mg/l
	Intermittent use/release	0,68 mg/l

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II		Sewage treatm	nent plant	13,61 mg/l
		Fresh water se	ediment	16,39 mg/kg dry weight (d.w.)
		Marine sedime	ent	16,39 mg/kg dry weight (d.w.)
		Soil		2,89 mg/kg dry weight (d.w.)

8.2 Exposure controls

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 containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Aqueous solution
Colour	:	light brown, yellow

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	Odour		:	No data available	9
	Odour ⁻	Threshold	:	No data available)
	Melting	point/freezing point	:	No data available)
	Initial b range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	54 °C	
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	рН		:	No data available)
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available)
	Relative	e density	:	No data available)
	Density		:	0,820 - 0,900 g/c	m ³
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	
9.2		formation		•• · · · ·	
	Explosi	ves	:	Not explosive	

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Oxidi	zing properties	: The substanc	e or mixture is not classified as oxidizing.
Evaporation rate		: No data avail	able
Moleo	cular weight	: No data avail	able
	1 10, Stability and		

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid Conditions to avoid	:	Heat, flames and sparks.
10 5 Incompatible materials		

10.5 Incompatible materials

Dxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely rou exposure	utes of :	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed. Toxic in contact with sk	in.	
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 410,05 mg/kg Method: Calculation method
Acute inhalation toxicity	· :	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

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Acute	e dermal toxicity	:	Acute toxicity esti Method: Calculati	mate: 393,03 mg/kg on method
Com	ponents:			
Para	ffin oil:			
Acute	e oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2.000 mg/kg substance or mixture has no acute dermal
Xyler	ne:			
	e oral toxicity	:	LD50 (Rat): 3.523 Method: Directive	3 mg/kg 67/548/EEC, Annex V, B.1.
Acute	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based	h vapour
Acute	e dermal toxicity	:	Method: Expert ju	mate: 1.100 mg/kg idgement on national or regional regulation.
Flum	ethrin:			
Acute	e oral toxicity	:	LD50 (Rat): > 20	mg/kg
			LD50 (Mouse): >	20 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 2.9	34 mg/l
Acute	e dermal toxicity	:	LD50 (Rat): > 5 m	ng/kg
II Tolue	ene:			
	e oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 28,1 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	5.000 mg/kg
Skin	corrosion/irritation			
Caus	es skin irritation.			
Com	ponents:			
Parat	ffin oil:			

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Spec Resu		: Rabbit : No skin irritatio	on	
Xyler	ne:			
Spec Resu		: Rabbit : Skin irritation		
Flum Resu	ethrin:	: No skin irritatio	00	
Incou	n.	. NO SKITTITIAL		
Tolue		Data		
Spec Metho Resu	od	: Rabbit : Directive 67/54 : Skin irritation	48/EEC, Annex V, B.4.	
	ous eye damage/eye i			
	es serious eye irritatio ponents:	n.		
Parat	ffin oil:			
Spec Resu		: Rabbit : No eye irritatio	n	
Xyler	ne:			
Spec Resu		: Rabbit : Irritation to eye	es, reversing within 21 days	
Flum	ethrin:			
Resu	lt	: Mild eye irritat	on	
Tolue	ene:			
Spec	ies	: Rabbit		
Resu	od It	: OECD Test G : No eye irritatio		
Resp	iratory or skin sensi	tisation		
	sensitisation lassified based on ava	ilable information.		
-	iratory sensitisation lassified based on ava	ilable information.		
Com	ponents:			
Xyler				
Test	туре	: Local lymph h	ode assay (LLNA)	

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Expos Specie Result		:	Skin contact Mouse negative	
Tolue Test T Expos Specie Metho Result	ype ure routes es id	: : : : : : : : : : : : : : : : : : : :	Maximisation Tes Skin contact Guinea pig Directive 67/548/I negative	t EEC, Annex V, B.6.
Not cla	cell mutagenicity assified based on avail conents:	able	information.	
Xylen Genot	e: oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Result: negative	nosome aberration test in vitro
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
Genot	oxicity in vivo	:	Test Type: Roder Species: Mouse Application Route Result: negative	nt dominant lethal test (germ cell) (in vivo) e: Skin contact
Flume	athrin:			
	oxicity in vitro	:		pial mutagenesis assay (Ames test) nonella typhimurium
			Test system: Chir Result: positive	nosomal aberration nese hamster ovary cells ssified due to inconclusive data.
			Test Type: Chron Test system: Hun Result: negative	nosomal aberration nan lymphocytes
			Test Type: in vitro Test system: Mou	o micronucleus test ise

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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11			Result: negative	
Germ sessi	n cell mutagenicity- As- ment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
Tolu	ene:			
Geno	ptoxicity in vitro	:	Test Type: In vitre Result: negative	o mammalian cell gene mutation test
			Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Geno	otoxicity in vivo	:	cytogenetic test, Species: Rat	jenicity (in vivo mammalian bone-marrow chromosomal analysis)
			Result: negative	e: Intraperitoneal injection
			Species: Mouse Application Route	nt dominant lethal test (germ cell) (in vivo) e: inhalation (vapour) fest Guideline 478
Not c	inogenicity lassified based on avail: ponents:	able	information.	
Xylei	ne:			
Spec Appli	ies cation Route sure time	:	Rat Ingestion 103 weeks negative	
Flum	ethrin:			
Spec Appli Expo NOA Resu	cation Route sure time EL	:	Rat Oral 2 Years 0,5 mg/kg body w negative	veight
Carci ment	nogenicity - Assess-	:	Weight of evidend cinogen	ce does not support classification as a car-
Tolu	ene:			
	cation Route sure time	:	Rat inhalation (vapou 103 weeks negative	r)

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	ation Route ure time		Mouse Skin contact 24 Months negative	
-	ductive toxicity amage the unborn child	d.		
<u>Comp</u>	onents:			
Xylen	e:			
Effects	s on fertility	:	Species: Rat	eneration reproduction toxicity study e: inhalation (vapour)
Effects ment	s on foetal develop-	:	Species: Rat	vo-foetal development e: inhalation (vapour)
Flume	thrin:			
	s on foetal develop-	:		e: Oral oxicity: NOAEL: 0,36 mg/kg body weight toxicity observed., Reduced offspring weight
				e: Oral oxicity: NOAEL: 0,5 mg/kg body weight toxicity observed., Skeletal malformations,
			Test Type: Develor Species: Rabbit Application Route Developmental To Result: No terato	e: Oral oxicity: NOAEL: 1,7 mg/kg body weight
Repro- sessm	ductive toxicity - As- ent	:	May damage the	unborn child.
Tolue				
Effects	s on fertility	:	Species: Rat Application Route	eneration reproduction toxicity study e: inhalation (vapour) est Guideline 416

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Effect ment	s on foetal develop-	:	Species: Rat	vo-foetal development e: inhalation (vapour)
Repro sessm	ductive toxicity - As- nent	:	Some evidence o animal experimer	f adverse effects on development, based on ts.
May c	- single exposure ause damage to organs	S.		
Xylen Asses		:	May cause respir	atory irritation.
	ethrin: sure routes ssment	:	Oral Causes damage t	to organs.
Tolue Asses		:	May cause drows	iness or dizziness.
May c	- repeated exposure ause damage to organs	s thr	ough prolonged or	repeated exposure.
Xylen Expos Targe		:	inhalation (vapou Auditory system Shown to produce centrations of >0.	e significant health effects in animals at con-
Expos	ethrin: sure routes ssment	:	Oral Causes damage t exposure.	to organs through prolonged or repeated
Targe	ne: sure routes t Organs sment	:	Inhalation Central nervous s May cause dama exposure.	system ge to organs through prolonged or repeated

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Flumethrin (1%) Formulation

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Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Paraf	fin oil:		
		: Rat, female : 161 mg/kg : Ingestion : 90 Days	
Xylen	ie:		
	EL cation Route sure time	: Rat : > 0,2 - 1 mg/ : inhalation (va : 13 Weeks : Based on da	
		: Rat : 150 mg/kg : Ingestion : 90 Days	
Flum	ethrin:		
Expos	EL cation Route sure time et Organs	: Rat : 0,7 mg/kg : Oral : 13 Weeks : digestive sys : decrease in a	tem, Skin appetite, Skin disorders
Expos	EL cation Route sure time et Organs		tem, Hair, Skin appetite, Skin disorders
Tolue	ene:		
		: Rat : 1,875 mg/l : inhalation (va : 6 Months	apour)
Speci NOAE Applic Expos		: Rat : 625 mg/kg : Ingestion : 13 Weeks	

Aspiration toxicity

May be fatal if swallowed and enters airways.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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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.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

Toluene:

Inhalation

: Target Organs: Central nervous system Symptoms: Neurological disorders

SECTION 12: Ecological information

12.1 Toxicity

Components:

Paraffin oil:		
Toxicity to fish	:	LL50 (Scophthalmus maximus (turbot)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Acartia tonsa (Calanoid copepod)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to algae/aquatic	:	EL50 (Skeletonema costatum (marine diatom)): > 100 mg/l

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



ersion 0	Revision Date: 06.04.2024		S Number: 19126-00016	Date of last issue: 30.09.2023 Date of first issue: 25.02.2019
plants			Remarks: Based NOELR (Skeletor Exposure time: 72 Test substance: V	Vater Accommodated Fraction on data from similar materials nema costatum (marine diatom)): > 1 mg/l
Xylene	e:			
Toxicit	y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13,5 mg/l 5 h
	y to daphnia and other c invertebrates	:	Exposure time: 24 Method: OECD T	
Toxicit plants	y to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 10 mg/l 2 h
Toxicit	y to microorganisms	:	NOEC : > 100 mg Exposure time: 3 Method: OECD T Remarks: Based	h
Toxicit icity)	y to fish (Chronic tox-	:	NOEC: > 0,1 - < 1 Exposure time: 35 Species: Danio re Method: OECD To Remarks: Based	5 d rio (zebra fish)
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2 ² Species: Daphnia Method: OECD T	l d magna (Water flea)
Flume	thrin:			
	y to fish (Chronic tox-	:	NOEC: 0,046 mg/ Exposure time: 14 Species: Danio re	l4 h
M-Fac toxicity	tor (Chronic aquatic /)	:	1	
Tolue	ne:			
Toxicit	y to fish	:	LC50 (Oncorhync Exposure time: 96	hus kisutch (coho salmon)): 5,5 mg/l ≩h
	y to daphnia and other cinvertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 3,78 mg/l 3 h

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To» pla	kicity to algae/aquatic nts	:	NOEC (Skeletone Exposure time: 72	ema costatum (marine diatom)): 10 mg/l 2 h
То	kicity to microorganisms	:	EC50 (Nitrosomo Exposure time: 24	
To» icity	<pre>kicity to fish (Chronic tox- /)</pre>	:	NOEC: 1,39 mg/l Exposure time: 40 d Species: Oncorhynchus kisutch (coho salmon)	
aqu	kicity to daphnia and other latic invertebrates (Chron- oxicity)	:	Exposure time: 7	d phnia dubia (water flea)
12.2 Pe	rsistence and degradabil	ity		
<u>Co</u>	mponents:			
Xyl	ene:			
Bio	degradability	:		> 70 %
 Tol	uene:			
	degradability	: Result: Readily biodegradable. Biodegradation: 80 % Exposure time: 20 d		80 %
12.3 Bio	baccumulative potential			
<u>Co</u>	mponents:			
Pa	affin oil:			
	tition coefficient: n- anol/water	:	log Pow: > 4 Remarks: Calcula	ation
Xyl	ene:			
	tition coefficient: n- anol/water	:	log Pow: 3,16 Remarks: Calcula	ation
Flu	methrin:			
	tition coefficient: n- anol/water	n- : log Pow: 6,2		
Tol	uene:			
Bio	accumulation	:	Species: Leucisco Bioconcentration	us idus (Golden orfe) factor (BCF): 90

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Partit	ion coefficient: n- ol/water	: log Pow: 2,73			
12.4 Mobi No da	lity in soil ata available				
12.5 Resu	12.5 Results of PBT and vPvB assessment				
Prod	uct:				
Asses	ssment	to be either pe	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of		
12.6 Endo	12.6 Endocrine disrupting properties				
Drod	uot.				

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or 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

14.1 UN number or ID number

ADN	:	UN 1992
ADR	:	UN 1992
RID	:	UN 1992
IMDG	:	UN 1992

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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IATA 14.2 UN ہ	A proper shipping name	:	UN 1992				
ADN	I	:	: FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene, Flumethrin)				
ADR		:	FLAMMABLE LIC (Xylene, Flumeth	QUID, TOXIC, N.O.S. rin)			
RID		:	FLAMMABLE LIC (Xylene, Flumeth	QUID, TOXIC, N.O.S. rin)			
IMD(G	:	FLAMMABLE LIC (Xylene, Flumeth	QUID, TOXIC, N.O.S. rin)			
іат <i>а</i> ІІ	A Contraction of the second seco	:	Flammable liquid (Xylene, Flumeth				
14.3 Tran	sport hazard class(es)						
			Class	Subsidiary risks			
ADN	l	:	3	6.1			
ADR		:	3	6.1			
RID		:	3	6.1			
IMD	G	:	3	6.1			
ΙΑΤΑ	N Contraction of the second seco	:	3	6.1			
14.4 Pacl	king group						
Clas	ting group sification Code ard Identification Number	:	III FT1 36 3 (6.1)				
Clas Haza Labe	ting group sification Code ard Identification Number		III FT1 36 3 (6.1) (D/E)				
Clas	ting group sification Code ard Identification Number els	: : :	III FT1 36 3 (6.1)				
Labe	king group	::	III 3 (6.1) F-E, S-D				
	(Cargo)		366				

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Pao Pao	craft) cking instruction (LQ) cking group pels	: 11	′343 II Tammable Liquid	s, Toxic	
Pao ger	A (Passenger) cking instruction (passen- aircraft) cking instruction (LQ)		55		
Pa	cking group bels	: 11		s, Toxic	
14.5 En	vironmental hazards				
AD Env	N vironmentally hazardous	: n	0		
AD Env	R /ironmentally hazardous	: n	0		
RIE Env) vironmentally hazardous	: n	0		
IMI Ma	DG rine pollutant	: n	0		
14.6 Sp	14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the

use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

If you intend to use this product as tattoo ink, please contact your ven-



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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I					dor.
					Toluene (Number on list 48)
		Substances of Very Hig	h	:	Not applicable
Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation			า	:	Not applicable
Regu	(Annex XIV) Regulation (EC) No 1005/2009 on substances that de-			:	Not applicable
Regu	plete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollu-				Not applicable
tants (recast) Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals				:	Not applicable
of dangerous chemicals Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the contro major-accident hazards involving dangerous substances.				t and of the Council on the control of	

.,	<u>.</u>	Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Full text of H-Statements

H225 :	Highly flammable liquid and vapour.
H226 :	Flammable liquid and vapour.
H300 :	Fatal if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H310 :	Fatal in contact with skin.
H312 :	Harmful in contact with skin.

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H315 H319 H332 H335 H336 H360D H361d H370 H372 H373 H410		 May cause drop May damage t Suspected of c Causes damage Causes damage Causes damage May cause damage May cause damage exposure. 	s eye irritation. led. piratory irritation. pwsiness or dizziness. he unborn child. damaging the unborn child. ge to organs if swallowed. ge to organs through prolonged or repeated
H412 H413		: Harmful to aqu	atic life with long lasting effects. g lasting harmful effects to aquatic life.
-	xt of other abbreviati	-	g lasting harmon enects to aquatic life.
Asp. Te Eye Irr Flam. I Repr. Skin Irr STOT 2000/3 2000/3 2000/3 2000/3 2000/1 2006/1 2006/1	c Chronic ox. it. _iq. rit. RE SE 9/EC	 Aspiration haz Eye irritation Flammable liqu Reproductive t Skin irritation Specific target Specific target Europe. Comm list of indicative Europe. Indica 	uids oxicity organ toxicity - repeated exposure organ toxicity - single exposure hission Directive 2000/39/EC establishing a first e occupational exposure limit values tive occupational exposure limit values pational Exposure limits ight hours oosure limit ight hours oosure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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 popula-



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tion; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

compile the Safety Data Sheet

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

Classification of the mixture:		Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Calculation method
Acute Tox. 3	H311	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 1B	H360D	Calculation method
STOT SE 2	H371	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 3	H412	Calculation method

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

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.

NO / EN

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