

Permethrin (65%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
2.0	09.07.2024	7766194-00008	Date of first issue: 05.02.2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Permethrin (65%) Formulation
Manufacturer or supplier's	deta	ails
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 c	hen	nical and restrictions on use
Recommended use	:	Veterinary product

Recommended use	: `	Veterinary produc
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H226 Flammable liquid and vapor. H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H360D May damage the unborn child.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames



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		P261 Avoid bre P264 Wash skii P270 Do not ea P271 Use only P272 Contamin the workplace.	on sources. No smoking. athing mist or vapors. n thoroughly after handling. it, drink or smoke when using this product. outdoors or in a well-ventilated area. ated work clothing should not be allowed out of tective gloves/ protective clothing/ eye protectio
		Response:	
		CENTER or dou P303 + P361 + all contaminate P304 + P340 + and keep at res POISON CENT P308 + P313 IF attention. P333 + P313 If attention.	P330 IF SWALLOWED: Call a POISON ctor/ physician if you feel unwell. Rinse mouth. P353 IF ON SKIN (or hair): Take off immediate d clothing. Rinse skin with water. P312 IF INHALED: Remove victim to fresh air t in a position comfortable for breathing. Call a ER or doctor/ physician if you feel unwell. F exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical advice ake off contaminated clothing and wash it befor
		Storage:	
		P405 Store lock	ked up.
		Disposal:	
		P501 Dispose o posal plant.	of contents/ container to an approved waste dis
Other	hazards		
er, the		no lesions and are of a	g or stinging on the face and mucosae. Howev- a transitory nature (max. 24 hours).

CTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Permethrin (ISO)	52645-53-1	>= 50 -< 70
1-Methoxy-2-propanol	107-98-2	>= 30 -< 50
2-Methoxypropanol	1589-47-5	>= 0.1 -< 1

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	:	If inhaled, remove to fresh air.



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			ng, give artificial respiration. difficult, give oxygen. attention.			
In case of skin contact		Remove cont Get medical a Wash clothing	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In ca	se of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
If sw	allowed	: If swallowed, Get medical a Rinse mouth	DO NOT induce vomiting.			
	important symptoms effects, both acute and /ed	: Harmful if sw. May cause an May cause di May damage This product Pyrethroid po	allowed or if inhaled. n allergic skin reaction. rowsiness or dizziness. the unborn child. contains a pyrethroid. isoning should not be confused with carbamate			
Prote	ection of first-aiders	: First Aid resp and use the r	sphate poisoning. onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).			
Note	s to physician		matically and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Chlorine compounds Carbon oxides
Specific extinguishing meth- ods	:	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. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Remove all sources of ignition.



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	tive equipment and emer- gency procedures				ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environmental 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
	Methods and materials for containment and cleaning up		:	Suppress (knock of jet. For large spills, price containment to ke can be pumped, si container. Clean up remaining absorbent. Local or national ri- disposal of this main employed in the ci- determine which ri- Sections 13 and 1	s should be used. t absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate eep material from spreading. If diked material store 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 regulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	 If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	 Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.



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Hygiene measures		 If exposure to chemical is likely during typical use, provide flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review engineering controls, proper personal protective equipme appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and th use of administrative controls. 					
Cond	itions for safe storage	Store locked up. Keep tightly clos Keep in a cool, v Store in accorda	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. 				
Mater	ials to avoid	: Do not store with Strong oxidizing Self-reactive sub Organic peroxide Flammable solid Pyrophoric liquic Pyrophoric solid Self-heating sub Substances and flammable gases Explosives Gases	n the following product types: agents ostances and mixtures es ls ls s stances and mixtures mixtures which in contact with water emit				

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
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal
		Wipe limit	800 µg/100 cm ²	Internal
1-Methoxy-2-propanol	107-98-2	VLE-PPT	100 ppm	NOM-010- STPS-2014
		VLE-CT	150 ppm	NOM-010- STPS-2014
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH

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





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			Containment tech are required to co			
		Use explosion-proof electrical, ventilating and lighting equipment.				
Per	rsonal protective equipm	ent				
Re	spiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside t recommended guidelines, use respiratory protection.			
	Filter type nd protection	:				
	Material	:	Chemical-resistar	nt gloves		
	Remarks	:		gloving. Take note that the product is may impact the selection of hand		
Eye	e protection	:	Wear safety glass If the work environ mists or aerosols, Wear a faceshield	es with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. If or other full face protection if there is a t contact to the face with dusts, mists, or		
Ski	n and body protection	:	task being perforr disposable suits)	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	dark amber
Odor	:	strong
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	37.8 - 40 °C



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	Evapor	ation rate	:	No data available)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	No data available	
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	immiscible	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	e characteristics e 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	::	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.



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ersion)	Revision Date: 09.07.2024	SDS Number: 7766194-00008		Date of last issue: 30.09.2023 Date of first issue: 05.02.2021
produ	cts			
	11. TOXICOLOGICA	LINFO	ORMATION	
Inhala Skin o Ingest	contact	tes of e	exposure	
	toxicity			
	ful if swallowed or if ir	nhaled.		
<u>Produ</u> Acute	<u>uct:</u> oral toxicity	:	Acute toxicity e Method: Calcula	stimate: 722.46 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphere Method: Calcula	e: vapor
Comp	oonents:			
Perm	ethrin (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 480) - 554 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 2.3 Exposure time: Test atmosphere	4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
1-Met	hoxy-2-propanol:			
	oral toxicity	:	LD50 (Rat): 4,0	16 mg/kg
Acute	inhalation toxicity	:	LC50 (Mouse): Exposure time: Test atmospher	6 h
Acute	dermal toxicity	:	LD50 (Rat): > 2 Assessment: TI toxicity	,000 mg/kg ne substance or mixture has no acute derma
	hoxypropanol:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 6 Exposure time: Test atmosphere	4 h



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Skin	corrosion/irritation			
	lassified based on availa	able	information.	
Com	ponents:			
Perm	ethrin (ISO):			
Speci	ies	:	Rabbit	
Resu	It	:	No skin irritation	
1-Met	thoxy-2-propanol:			
Speci		:	Rabbit	
Resu	IL	•	No skin irritation	
2-Met	thoxypropanol:			
Spec		:	Rabbit	
Resu Rema		:	No skin irritation Based on data fro	om similar materials
		•	Dabba on data ne	
	us eye damage/eye irr			
	lassified based on avail	able	information.	
Com	ponents:			
	ethrin (ISO):			
Speci Resu		:	Rabbit No eye irritation	
••			,	
	thoxy-2-propanol:			
Speci Resu		:	Rabbit No eye irritation	
INESU	it.	•	No eye imtation	
2-Met	thoxypropanol:			
Resu		:	No eye irritation	
Rema	arks	•	Based on data fro	om similar materials
Resp	iratory or skin sensitiz	atic	on	
Skin	sensitization			
May o	cause an allergic skin re	actio	on.	
-	iratory sensitization lassified based on availa	able	information.	
Com	ponents:			
Perm	ethrin (ISO):			
Test	Туре	:	Buehler Test	
Route Speci	es of exposure	:	Skin contact Guinea pig	
Resu		:	positive	
Asses	ssment	:	Probability or evid	dence of skin sensitization in humans



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1-Me	thoxy-2-propanol:		
Test	Туре	: Maximization Test	
	es of exposure	: Skin contact	
Spec Resu		: Guinea pig : negative	
Kesu	int.	. negauve	
2-Me	thoxypropanol:		
Test		: Maximization Test	
	es of exposure	: Skin contact	
Spec		: Guinea pig	
Resu Rema		: negative : Based on data from similar materials	
Reine	ains		
Gern	n cell mutagenicity		
Not c	lassified based on ava	lable information.	
Com	ponents:		
	nethrin (ISO):		
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Result: negative	
		Test Type: Chromosome aberration test in vitro Result: negative	
		Test Type: DNA damage and repair, unscheduled DNA sy thesis in mammalian cells (in vitro) Result: negative	/n-
		Test Type: Chromosome aberration test in vitro Result: positive	
Geno	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay) Species: Mouse Result: negative	rivo
		Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Result: negative	I
		Test Type: Rodent dominant lethal test (germ cell) (in vivo Species: Mouse Result: negative))
		Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay) Species: Rat	vivo



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			plication Route sult: negative	e: Intraperitoneal injection
		cy Sp Ap		genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
	n cell mutagenicity - ssment		eight of eviden I mutagen.	ce does not support classification as a germ
∎ 1-Me	thoxy-2-propanol:			
	otoxicity in vitro		st Type: Bacte sult: negative	rial reverse mutation assay (AMES)
			st Type: Chror sult: negative	nosome aberration test in vitro
			st Type: In vitr sult: negative	o mammalian cell gene mutation test
		ma	st Type: In vitr Ilian cells sult: equivoca	o sister chromatid exchange assay in mam-
		the Me	esis in mamma	damage and repair, unscheduled DNA syn- Ilian cells (in vitro) Fest Guideline 482
Geno	otoxicity in vivo	cy Sp Ap	ogenetic assa ecies: Mouse	malian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
11 2-Me	thoxypropanol:			
	otoxicity in vitro		st Type: Bacte sult: negative	rial reverse mutation assay (AMES)
		Re	sult: negative	nosome aberration test in vitro on data from similar materials
			sult: negative	o mammalian cell gene mutation test on data from similar materials
		ma Re	lian cells sult: equivoca	o sister chromatid exchange assay in mam- I on data from similar materials



rsion	Revision Date: 09.07.2024	SDS Number: 7766194-00008	Date of last issue: 30.09.2023 Date of first issue: 05.02.2021
		thesis in mam Method: OECI Result: negati	A damage and repair, unscheduled DNA syn- malian cells (in vitro) D Test Guideline 482 /e ed on data from similar materials
Geno	otoxicity in vivo	cytogenetic as Species: Mous Application Ro Result: negatir Remarks: Bas Test Type: Mu cytogenetic te Species: Mous Application Ro Result: negatir	se bute: Intraperitoneal injection ve ed on data from similar materials tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) se bute: Ingestion ve
	inogenicity lassified based on avai		ed on data from similar materials
	ponents:		
Perm	nethrin (ISO):		
Spec Resu		: Rat : negative	
Spec Resu		: Mouse : negative	
1-Me	thoxy-2-propanol:		
	cation Route sure time od	: Rat : inhalation (vap : 2 Years : OECD Test G : negative	
-	oductive toxicity damage the unborn chi	d.	
Com	ponents:		
Perm	nethrin (ISO):		
IIEffoo	ts on fertility	Species: Rat	o-generation reproduction toxicity study oute: Ingestion
Ellec		Result: negati	/e



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			Application Route Result: negative	: Ingestion
1-Me	thoxy-2-propanol:			
	ts on fertility	:	Species: Rat	eneration reproduction toxicity study :: inhalation (vapor) est Guideline 416
Effec	ts on fetal development	:	Species: Rat	vo-fetal development e: inhalation (vapor)
2-Me	thoxypropanol:			
Effec	ts on fetal development	:	Test Type: Embry Species: Rabbit Application Route Result: positive	vo-fetal development :: Inhalation
Repression Repres	oductive toxicity - As- ment	:	Clear evidence of animal experimer	adverse effects on development, based on ts.
	T-single exposure cause drowsiness or dizz	zine	SS.	
Com	ponents:			
	thoxy-2-propanol:			
Asse	ssment	:	May cause drows	iness or dizziness.
2-Me	thoxypropanol:			
	ssment	:	May cause respira Based on nationa	atory irritation. I or regional regulation.
STO	T-repeated exposure			
Not c	lassified based on availa	able	information.	
Repe	eated dose toxicity			
Com	ponents:			
Perm	nethrin (ISO):			
Spec NOA		:	Rat 0.2201 mg/l	
Appli	cation Route sure time	:	Inhalation 90 Days	
Spec		:	Rat	
NOA Appli	EL cation Route	:	175 mg/kg Ingestion	



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	ure time	:	90 Days			
1-Meth	oxy-2-propanol:					
Specie NOAEL Applica	S	::	Rat 919 mg/kg Ingestion 35 Days			
Exposu Method Specie NOAEL	L ation Route ure time d s L		Rat 1.1 mg/l inhalation (vapor) 2 y OECD Test Guide Rabbit 1,838 mg/kg			
	ation Route ure time	:	Skin contact 90 Days			
2-Meth	noxypropanol:					
Specie NOAEL	s L ation Route	:	Rat 10.5 mg/l inhalation (vapor) 28 Days			
	L ation Route er of exposures	: : : : : : : : : : : : : : : : : : : :	Rat > 300 mg/l Ingestion 25 Days Based on data fro	om similar materials		
Specie NOAEL Applica Numbe Remar	L ation Route er of exposures	: : : : : : : : : : : : : : : : : : : :	Rabbit > 200 mg/l Skin contact 90 Days Based on data fro	om similar materials		
-	ition toxicity Issified based on availa	ble	information.			
SECTION 1	2. ECOLOGICAL INFO	DRN	IATION			
Ecotox	kicity					
	onents:					
	thrin (ISO):					
	y to fish	:	LC50 (Lepomis m Exposure time: 96	nacrochirus (Bluegill sunfish)): 0.00079 mg/l 6 h		
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.0001 mg/l 8 h		



ersion .0	Revision Date: 09.07.2024		9S Number: 66194-00008	Date of last issue: 30.09.2023 Date of first issue: 05.02.2021	
	Toxicity to algae/aquatic plants		ErC50 (Pseudokirchneriella subcapitata (green algae mg/l Exposure time: 72 h		
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.0023 ? h	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Danio rerio (zebra fish)): 0.00041 mg/l Exposure time: 35 d Method: OECD Test Guideline 210		
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te		
Toxici	ty to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 l		
1-Met	hoxy-2-propanol:				
	ty to fish	:	LC50 (Leuciscus i Exposure time: 96 Method: DIN 3841		
	ty to daphnia and other ic invertebrates	:	: EC50 (Daphnia magna (Water flea)): 23,300 mg/l Exposure time: 48 h		
Toxici plants	ty to algae/aquatic	:	: ErC50 (Skeletonema costatum (marine diatom)): 6,745 Exposure time: 72 h Method: ISO 10253		
Toxici	ty to microorganisms	:	: IC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
11 2-Met	hoxypropanol:				
	ty to fish	:	Exposure time: 96	idus (Golden orfe)): > 100 mg/l 6 h on data from similar materials	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h on data from similar materials	
Toxici plants	ty to algae/aquatic	:	Exposure time: 72 Method: ISO 1025		
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te		



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Τ	oxicity to microorganisms	:	EC10: > 1 mg/l Exposure time: 3 Method: OECD T	
P	ersistence and degradabil	ity		
<u>C</u>	omponents:			
	ermethrin (ISO): iodegradability	:		y biodegradable. est Guideline 301F
1.	Methoxy-2-propanol:			
В	iodegradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD T	96 %
2-	Methoxypropanol:			
В	iodegradability	:		odegradable. on data from similar materials
В	ioaccumulative potential			
<u>c</u>	omponents:			
P	ermethrin (ISO):			
	ioaccumulation	:	Species: Lepomis Bioconcentration	macrochirus (Bluegill sunfish) factor (BCF): 570
	artition coefficient: n- ctanol/water	:	log Pow: 4.67	
1.	Methoxy-2-propanol:			
	artition coefficient: n- ctanol/water	:	log Pow: < 1	
	Methoxypropanol:			
	artition coefficient: n- ctanol/water	:	log Pow: -0.49 Remarks: Calcula	ition
	o bility in soil o data available			
0	ther adverse effects o data available			



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. 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	:	UN 3092
Proper shipping name	÷	1-METHOXY-2-PROPANOL SOLUTION
Class	:	3
Packing group	:	
Labels	:	3
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 3092
Proper shipping name	:	1-Methoxy-2-propanol solution
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo	:	366
aircraft) Packing instruction (passen-	:	355
ger aircraft)		
IMDG-Code		
UN number	:	UN 3092
Proper shipping name	:	1-METHOXY-2-PROPANOL SOLUTION
		(Permethrin (ISO))
Class	:	3
Packing group	:	
Labels	:	3
EmS Code	:	F-E, S-D
Marine pollutant	:	yes
Transport in bulk according	to	Annex II of MARPOL 73/78 and the IBC Coc
Not applicable for product as a	รมก	nlied

Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT

Proper shipping name	:	UN 3092 1-METHOXY-2-PROPANOL, SOLUTION 3
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Packi Label	ng group s	: III : 3		

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

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:

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

SECTION 16. OTHER INFORMATION

Revision Date Date format	-	09.07.2024 dd.mm.yyyy
Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
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
ACGIH / STEL	:	Short-term exposure limit
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 Chemi-



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cal 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

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

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

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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