

Permethrin (65%) Formulation

Version 3.0	Revision Date: 28.09.2024		S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021			
SECTION	SECTION 1. IDENTIFICATION						
Produ	Product identifier		Permethrin (65%	6) Formulation			
Manu	ifacturer or supplier's	s deta	ils				
Comp	bany	:	MSD				
Addre	ess	:	Rua Coronel Be Cruzeiro - Sao F	nto Soares, 530 Paulo - Brazil CEP 12730-340			
Telep	hone	:	908-740-4000				
Emer	gency telephone	:	1-908-423-6000				
E-ma	il address	:	EHSDATASTEV	VARD@msd.com			
Reco	mmended use of the	chem	ical and restricti	ons on use			
	mmended use ictions on use	:	Veterinary produ Not applicable	uct			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	:	
Signal Word	:	Warning



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
Hazar	d Statements	H302 + H332 H317 May cau H336 May cau	able liquid and vapor. Harmful if swallowed or if inhaled. use an allergic skin reaction. use drowsiness or dizziness. kic to aquatic life with long lasting effects.
Preca	utionary Statements	and other igni P233 Keep co P270 Do not e P271 Use onl P272 Contam the workplace P273 Avoid re	elease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P303 + P361 Iy all contamir P304 + P340 and keep com doctor if you f P333 + P313 vice/ attention P391 Collect s	If skin irritation or rash occurs: Get medical ad-
	hazards which do no	Storage: P405 Store lo	

Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	/ Mixture	:	Mixture

Components

-			
Chemical name	CAS-No.	Classification	Concentration (% w/w)
Permethrin (ISO)	52645-53-1	Acute Tox. (Oral), 4 Acute Tox. (Inhala- tion), 4 Skin Sens., 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 50 -< 70
1-Methoxy-2-propanol	107-98-2	Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Inhala-	>= 30 -< 50



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue Date of first issue	
			tion), 5 STOT SE, 3	
2-Me	ethoxypropanol	1589-47-5	Flam. Liq., 3 Repr., 1B STOT SE, 3	>= 0,1 -< 0,3

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately.
If inhaled	:	When symptoms persist or in all cases of doubt seek medical advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration.
In case of skin contact	:	If breathing is difficult, give oxygen. Get medical attention. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
In case of eye contact	:	Wash clothing before reuse. Thoroughly clean shoes before reuse. Flush eyes with water as a precaution.
If swallowed	:	Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention.
Most important symptoms	:	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Harmful if swallowed or if inhaled.
and effects, both acute and delayed		May cause an allergic skin reaction. May cause drowsiness or dizziness. This product contains a pyrethroid.
Protection of first-aiders	:	Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment
Notes to physician	:	when the potential for exposure exists (see section 8). 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	:	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.



Vers 3.0	sion	Revision Date: 28.09.2024		S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
	Hazard ucts	ous combustion prod-	:	Exposure to comb Chlorine compour Carbon oxides	pustion products may be a hazard to health. nds
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:		e, wear self-contained breathing apparatus. ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE
		CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021		
		ventilation. Use explosior ment.	n-proof electrical, ventilating and lighting equip-		
Advid	ce on safe handling	: Do not get on Avoid breathin Do not swallo Avoid contact Wash skin tho Handle in acc practice, base assessment Non-sparking Keep containe Keep away fro other ignition Take precauti Do not eat, dr			
Hygi	ene measures	: If exposure to flushing syste place. When using d Contaminated workplace. Wash contam The effective engineering c appropriate de industrial hygi	o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.		
Conc	litions for safe storage	Store locked u Keep tightly c Keep in a coo Store in accor			
Mate	rials to avoid	: Do not store w Strong oxidizi Self-reactive s Organic perox Flammable sc Pyrophoric liq Pyrophoric so Self-heating s Substances a flammable ga Explosives Gases	vith the following product types: ng agents substances and mixtures kides blids uids lids ubstances and mixtures nd mixtures which in contact with water emit		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



			S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021			
Comp	onents		CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Perme	ethrin (ISO)		52645-53-1	TŴA	80 µg/m3 (OEB 3)	Internal	
				Wipe limit	800 µg/100 cm ²	Internal	
1-Met	hoxy-2-propanol		107-98-2	TWA	50 ppm	ACGIH	
				STEL	100 ppm	ACGIH	
Engin	eering measures	:	technologies t less quick con All engineering design and op protect produc Containment t are required to	o control airbo nections). g controls shou perated in acco cts, workers, ar echnologies su control at sou to uncontrolle levices).	controls and manufac rne concentrations (e.g uld be implemented by rdance with GMP princ nd the environment. uitable for controlling co ince and to prevent mig d areas (e.g., open-fac	g., drip- facility ciples to ompounds gration of	
			Use explosion equipment.	-proof electrica	al, ventilating and lighti	ng	
Perso	onal protective equip	ment					
Filt	ratory protection ter type protection	:	exposure asse	essment demo d guidelines, us	ntilation is not available nstrates exposures out e respiratory protectio	tside the	
Ma	aterial	:	Chemical-resi	stant gloves			
-	marks	:	flammable, wh protection. Wear safety g	nich may impac lasses with sid	ke note that the produc of the selection of hanc e shields or goggles.	I	
			mists or aeros Wear a facesh potential for di aerosols.	ols, wear the a hield or other fu irect contact to	ctivity involves dusty compropriate goggles. In face protection if the the face with dusts, m	ere is a	
Skin a	and body protection	:	Additional boo task being per disposable su	formed (e.g., s its) to avoid ex ite degowning	oat. ould be used based up leevelets, apron, gaun posed skin surfaces. techniques to remove p	tlets,	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	dark amber
Odor	:	strong



Vers 3.0	sion	Revision Date: 28.09.2024		S Number: 6186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
	Odor Th	nreshold	:	No data available)
	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	
	Initial bo range	oiling point and boiling	:	No data available	
	Flash p	oint	:	37,8 - 40 °C	
	Evapora	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	9
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available	9
	Density		:	No data available	9
	Solubilit Wate	ty(ies) er solubility	:	immiscible	
		n coefficient: n-	:	Not applicable	
	octanol/ Autoign	ition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosit Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecul	lar weight	:	No data available)
	Particle Particle	characteristics size	:	Not applicable	





ersion 0	Revision Date: 28.09.2024	-	S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021	
ECTION	10. STABILITY AND RE	EAC	ΤΙVITY		
	tivity nical stability bility of hazardous reac-	:	Stable under no Flammable liqu Vapors may for	s a reactivity hazard. ormal conditions. id and vapor. m explosive mixture with air. strong oxidizing agents.	
Conditions to avoid Incompatible materials Hazardous decomposition products			Heat, flames an Oxidizing agent No hazardous c		
ECTION	11. TOXICOLOGICAL I	NFC	ORMATION		
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact		
	e toxicity ful if swallowed or if inha	led.			
Prod	uct:				
Acute	e oral toxicity	:	Acute toxicity es Method: Calcula	timate: 722,46 mg/kg tion method	
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: 4 Test atmosphere Method: Calcula	l h e: vapor	
Com	ponents:				
Perm	ethrin (ISO):				
Acute	e oral toxicity	:	LD50 (Rat): 480	- 554 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): 2,3 Exposure time: 4 Test atmosphere	↓ ĥ	
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg	
1-Met	thoxy-2-propanol:				
	e oral toxicity	:	LD50 (Rat): 4.01	6 mg/kg	
Acute inhalation toxicity			LC50 (Mouse): < 22,2 mg/l Exposure time: 6 h Test atmosphere: vapor		
Acute	e dermal toxicity	:	LD50 (Rat): > 2. Assessment: Th toxicity	000 mg/kg e substance or mixture has no acute derma	



ersion .0	Revision Date: 28.09.2024		OS Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
2-Met	hoxypropanol:			
Acute	oral toxicity	:	LD50 (Rat): > 5.	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 6 Exposure time: 4 Test atmosphere	4 h
	corrosion/irritation assified based on avai	ilable	information.	
Comp	oonents:			
Perm	ethrin (ISO):			
Speci Resul		:	Rabbit No skin irritation	I
1-Met	hoxy-2-propanol:			
Speci Resul		:	Rabbit No skin irritation	I
2-Met	hoxypropanol:			
Speci		:	Rabbit	
Resul Rema		:	No skin irritation Based on data f	rom similar materials
Serio	us eye damage/eye i	rritati	on	
Not cl	assified based on avail	ilable	information.	
<u>Comp</u>	oonents:			
Perm	ethrin (ISO):			
Speci	es	:	Rabbit	
Resul	t	:	No eye irritation	
1-Met	hoxy-2-propanol:			
Speci		:	Rabbit	
Resul	t	:	No eye irritation	
2-Met	hoxypropanol:			
Resul		:	No eye irritation	
Rema	rks	:	Based on data f	rom similar materials
Respi	iratory or skin sensit	izatio	n	
Skin s	sensitization			
May c	ause an allergic skin r	reactio	on.	
Respi	ratory sensitization			
-	assified based on avai	ilable	information.	



)	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
Com	oonents:		
Perm	ethrin (ISO):		
Test	. ,	: Buehler Test	
Route	es of exposure	: Skin contact	
Speci		: Guinea pig	
Resu	lt	: positive	
Asses	ssment	: Probability or e	vidence of skin sensitization in humans
1-Met	thoxy-2-propanol:		
Test	Гуре	: Maximization T	est
	es of exposure	: Skin contact	
Speci		: Guinea pig	
Resu	lt	: negative	
2-Met	thoxypropanol:		
Test		: Maximization T	est
Route	es of exposure	: Skin contact	
Speci		: Guinea pig	
Resu		: negative	
Rema	arks	: Based on data	from cimilar motoriala
Germ	a cell mutagenicity lassified based on avai		
Germ Not cl	cell mutagenicity		
Germ Not cl <u>Comp</u> Perm	n cell mutagenicity lassified based on ava ponents:	ailable information.	terial reverse mutation assay (AMES)
Germ Not cl <u>Comp</u> Perm	n cell mutagenicity lassified based on ava ponents: ethrin (ISO):	ailable information. : Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) e itro mammalian cell gene mutation test
Germ Not cl <u>Comp</u> Perm	n cell mutagenicity lassified based on ava ponents: ethrin (ISO):	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ	eterial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e omosome aberration test in vitro
Germ Not cl <u>Comp</u> Perm	n cell mutagenicity lassified based on ava ponents: ethrin (ISO):	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: Chr Result: negativ Test Type: DN/	cterial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e omosome aberration test in vitro e A damage and repair, unscheduled DNA syn- nalian cells (in vitro)
Germ Not cl <u>Comp</u> Perm	n cell mutagenicity lassified based on ava ponents: ethrin (ISO):	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: Chr Result: negativ Test Type: DN/ thesis in mamn Result: negativ	eterial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e omosome aberration test in vitro e A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e omosome aberration test in vitro
Germ Not cl Com Perm Geno	n cell mutagenicity lassified based on ava ponents: ethrin (ISO):	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: Chr Result: negativ Test Type: DN/ thesis in mamn Result: negativ Test Type: Chr Result: positive	eterial reverse mutation assay (AMES) e itro mammalian cell gene mutation test e omosome aberration test in vitro e A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e omosome aberration test in vitro e mmalian erythrocyte micronucleus test (in vivo say) e



Version 3.0	Revision Date: 28.09.2024	SDS Number:Date of last issue: 09.07.20247766186-00009Date of first issue: 05.02.2021
		Result: negative
		Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Result: negative
		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Intraperitoneal injection Result: negative
		Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Result: positive
	n cell mutagenicity - ssment	: Weight of evidence does not support classification as a germ cell mutagen.
1-Me	thoxy-2-propanol:	
	ptoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: equivocal
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Method: OECD Test Guideline 482 Result: negative
Geno	otoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative
11 2-Mo	thoxypropanol:	
	ptoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials



ersion .0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
		Result: negativ	vitro mammalian cell gene mutation test ve ed on data from similar materials
		malian cells Result: equivo	vitro sister chromatid exchange assay in mam- cal ed on data from similar materials
		thesis in mamr Method: OECI Result: negativ	A damage and repair, unscheduled DNA syn- nalian 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: negativ	e ute: Intraperitoneal injection
		cytogenetic tes Species: Mous Application Ro Result: negativ	ute: Ingestion
	inogenicity lassified based on av	cilchle information	
	ponents:		
Perm	ethrin (ISO):		
Spec		: Rat	
Resu		: negative	
Spec Resu		: Mouse : negative	
1-Me	thoxy-2-propanol:		
Spec		: Rat	
Appli	cation Route sure time	: inhalation (vap : 2 Years	or)
Meth Resu	od	: OECD Test Gu : negative	uideline 453
	oductive toxicity lassified based on av	ailable information	
Com	ponents:		
Perm	ethrin (ISO):		



Version 3.0	Revision Date: 28.09.2024		9S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
Effe	ects on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effe	ects on fetal development	:		ned repeated dose toxicity study with the elopmental toxicity screening test : Ingestion
1-N	lethoxy-2-propanol:			
	ects on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416
Effe	ects on fetal development	:	Species: Rat	o-fetal development : inhalation (vapor)
2-N	lethoxypropanol:			
	ects on fetal development	:	Test Type: Embry Species: Rabbit Application Route Result: positive	o-fetal development : Inhalation
-	productive toxicity - As- sment	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
ST	OT-single exposure			
	y cause drowsiness or dizz	zine	SS.	
Co	mponents:			
1-N	lethoxy-2-propanol:			
Ass	sessment	:	May cause drows	iness or dizziness.
2-M	lethoxypropanol:			
	sessment	:	May cause respira	atory irritation.
	marks	:		l or regional regulation.
	OT-repeated exposure t classified based on availa	able	information.	
Rej	peated dose toxicity			
Co	mponents:			
	methrin (ISO):			



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
		: Rat : 0,2201 mg/l : Inhalation : 90 Days	
		: Rat : 175 mg/kg : Ingestion : 90 Days	
1-Me	thoxy-2-propanol:		
Speci NOAI Applie Expos		: Rat : 919 mg/kg : Ingestion : 35 Days	
	EL cation Route sure time	: Rat : 1,1 mg/l : inhalation (vapo : 2 y : OECD Test Gui	
Speci NOAI Applie Expo		: Rabbit : 1.838 mg/kg : Skin contact : 90 Days	
2-Me	thoxypropanol:		
		: Rat : 10,5 mg/l : inhalation (vapo : 28 Days	r)
Spec NOAI Appli Numb Rema	EL cation Route per of exposures	: Rat : > 300 mg/l : Ingestion : 25 Days : Based on data f	rom similar materials
Speci NOAI Applie Numb Rema	EL cation Route per of exposures	: Rabbit : > 200 mg/l : Skin contact : 90 Days : Based on data f	rom similar materials

Aspiration toxicity

Not classified based on available information.



Permethrin (65%) Formulation

ersion)	Revision Date: 28.09.2024		S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
	12. ECOLOGICAL INFO	ORN	ΙΑΤΙΟΝ	
Ecoto	xicity			
<u>Comp</u>	onents:			
	ethrin (ISO):			
Toxicit	ty to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 0,00079 mg/l 96 h
	ty to daphnia and other cinvertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 0,0001 mg/l 48 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudol mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 1,1 72 h
			EC10 (Pseudok mg/l Exposure time:	irchneriella subcapitata (green algae)): 0,002 72 h
M-Fac icity)	tor (Acute aquatic tox-	:	10.000	
	ty to fish (Chronic tox-	:	Exposure time:	erio (zebra fish)): 0,00041 mg/l 35 d Test Guideline 210
	ty to daphnia and other c invertebrates (Chron- city)		Exposure time:	i magna (Water flea)): 0,0047 μg/l 21 d Test Guideline 211
M-Fac	tor (Chronic aquatic	:	10.000	
	y to microorganisms	:	EC50: > 1.000 r Exposure time:	
1-Metl	hoxy-2-propanol:			
Toxicit	y to fish	:	LC50 (Leuciscu Exposure time: Method: DIN 38	
	ty to daphnia and other cinvertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 23.300 mg/l 48 h
Toxicit plants	y to algae/aquatic	:	ErC50 (Skeletor Exposure time: Method: ISO 10	
Toxicit	ty to microorganisms	:	IC50: > 1.000 m Exposure time: Method: OECD	

2-Methoxypropanol:



Versi 3.0	ion	Revision Date: 28.09.2024		S Number: 66186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
	Toxicity	to fish	:	Exposure time: 96	dus (Golden orfe)): > 100 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l h on data from similar materials
	Toxicity plants	to algae/aquatic	:	Exposure time: 72 Method: ISO 1025	
		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC10: > 1 mg/l Exposure time: 3 l Method: OECD Te Remarks: Based o	
11	Persist	ence and degradabili	ty		
	Compo	nents:			
	Permet	hrin (ISO):			
	Biodegr	adability	:	Result: Not readily Method: OECD Te	/ biodegradable. est Guideline 301F
	1-Meth	oxy-2-propanol:			
	Biodegr	adability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: OECD Te	96 %
		oxypropanol: adability	:	Result: Readily bio Remarks: Based o	odegradable. on data from similar materials
	Bioacc	umulative potential			
	<u>Compo</u>	onents:			
	Permet	hrin (ISO):			
		umulation	:	Species: Lepomis Bioconcentration f	macrochirus (Bluegill sunfish) actor (BCF): 570
	Partitior octanol/	n coefficient: n- /water	:	log Pow: 4,67	
	1-Metho	oxy-2-propanol:			



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021
	ion coefficient: n- ol/water	: log Pow: < 1	
2-Methoxypropanol: Partition coefficient: n- octanol/water		: log Pow: -0,4 Remarks: Ca	
	lity 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. 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	:	III
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 aircraft)	:	366
Packing instruction (passen- ger aircraft)	:	355
IMDG-Code		
UN number		UN 3092
Proper shipping name	:	1-METHOXY-2-PROPANOL SOLUTION
	•	(Permethrin (ISO))
Class	:	3



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7766186-00009	Date of last issue: 09.07.2024 Date of first issue: 05.02.2021	
Label EmS Marin Tran s	Code e pollutant		RPOL 73/78 and the IBC Code	
Dom	estic regulation			
Prope Class Packi Label	umber er shipping name s ng group	: 3 : III : 3	-PROPANOL, SOLUTION	
Spec	ial precautions for use	er		
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.				
SECTION 15. REGULATORY INFORMATION				

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

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

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	:	28.09.2024
Date format	:	dd.mm.yyyy

Further information

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.



Version	Revision Date:	SDS Number:	Date of last issue: 09.07.2024
3.0	28.09.2024	7766186-00009	Date of first issue: 05.02.2021

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA ACGIH / STEL		8-hour, time-weighted average Short-term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless 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.

BR / Z8