



Version 3.0	Revision Date: 2024/07/09		S Number: 66191-00008	Date of last issue: 2023/09/30 Date of first issue: 2021/02/05
1. PROD	UCT AND COMPANY IDI	ENT	IFICATION	
Proc	luct name	:	Permethrin (65%) Formulation
	ufacturer or supplier's c	letai :	ils MSD	
Addı	ress	:		venue ersey U.S.A. 07065
Tele	phone	:	908-740-4000	
Eme	rgency telephone number	r :	1-908-423-6000	
E-ma	ail address	:	EHSDATASTEW	/ARD@msd.com
Rec	ommended use of the cl	hem	ical and restriction	ons on use
	ommended use rictions on use	:	Veterinary produ Not applicable	ct
2. HAZAI	RDS IDENTIFICATION			
	Classification		Category 3	

Flammable li		:	Category 3
Acute toxicity	r (Oral)	:	Category 4
Acute toxicity	(Inhalation)	:	Category 4
Skin sensitisa	ation	:	Category 1
Specific targe single expose	et organ toxicity - ure	:	Category 3
Short-term (a hazard	cute) aquatic	:	Category 1
Long-term (cl hazard	hronic) aquatic	:	Category 1
GHS label el Hazard picto		:	<u>(1)</u>
Signal word		:	Warning

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Hazar	rd statements	H302 + H332 H H317 May cau H336 May cau	ble liquid and vapour. Harmful if swallowed or if inhaled. se an allergic skin reaction. se drowsiness or dizziness. c to aquatic life with long lasting effects.
Preca	utionary statements	No smoking. P233 Keep cor P241 Use expl ment. P242 Use only P243 Take pre P261 Avoid bre P264 Wash ski P270 Do not ea P271 Use only P272 Contamir the workplace. P273 Avoid rel	ay from heat/ sparks/ open flames/ hot surface ntainer tightly closed. osion-proof electrical/ ventilating/ lighting equi non-sparking tools. cautionary measures against static discharge eathing mist or vapours. n thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. nated work clothing should not be allowed out ease to the environment. tective gloves/ protective clothing/ eye protec ction.
		CENTER/ doct P303 + P361 + Iy all contamina P304 + P340 + and keep comf doctor if you fe P333 + P313 If vice/ attention.	skin irritation or rash occurs: Get medical ad
		Storage:	tore in a well-ventilated place. Keep cool.
		Disposal: P501 Dispose	

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). Vapours may form explosive mixture with air.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Permethrin (ISO)	52645-53-1	>= 60 -<= 100
1-Methoxy-2-propanol	107-98-2	>= 30 -< 60
2-Methoxypropanol	1589-47-5	< 0.3

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	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 case of eye contact	:	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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Never give anything by mouth to an unconscious person. Harmful if swallowed or if inhaled. May cause an allergic skin reaction. May cause drowsiness or dizziness. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate
Protection of first-aiders	:	or organophosphate poisoning. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.
5. FIREFIGHTING 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-	:	Do not use a solid water stream as it may scatter and spread





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fightin	g		Vapours may for	ible over considerable distance. rm explosive mixtures with air. nbustion products may be a hazard to health.		
Hazar ucts	dous combustion prod-	:	Chlorine compo Carbon oxides	unds		
Speci ods	Specific extinguishing meth- ods		cumstances and Use water spray Remove undama so.	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to do		
	al protective equipment efighters	:	Evacuate area. In the event of fire, wear self-contained breathing appar Use personal protective equipment.			
6. ACCIDE	ENTAL RELEASE MEAS	SUF	RES			
tive eo	nal precautions, protec- quipment and emer- procedures	:	Follow safe hand	ces of ignition. otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).		
Enviro	Environmental precautions		Prevent further I Prevent spreadin barriers). Retain and dispo	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.		
	ods and materials for inment and cleaning up	:	Soak up with ine Suppress (knock spray jet. For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this mat employed in the mine which regu	ols should be used. ert absorbent material. (< down) gases/vapours/mists with a water provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding national requirements.		

7. HANDLING AND STORAGE

Technical measures

: See Engineering measures under EXPOSURE





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Loc	al/Total ventilation	: If sufficient ve ventilation.	PERSONAL PROTECTION section. ntilation is unavailable, use with local exhaust n-proof electrical, ventilating and lighting equip-
Adv	rice on safe handling	Avoid breathir Do not swallor Avoid contact Wash skin tho Handle in acc practice, base sessment Non-sparking Keep containe Keep away fro other ignition Take precauti Do not eat, dr	
Cor	nditions for safe storage	Store locked u Keep tightly c Keep in a coo Store in accor	
Mat	erials to avoid	: Do not store v Self-reactive s Organic perov Oxidizing age Flammable ga Pyrophoric liq Pyrophoric so	vith the following product types: substances and mixtures kides nts ases uids lids ubstances and mixtures

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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	NAB	100 ppm	ID OEL
		PSD	150 ppm	ID OEL
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH





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Engi	neering measures	t Iv F C a t t	echnologies to co ess quick connect All engineering co lesign and operatorotect products, Containment tech are required to co	ntrols should be implemented by facility ted in accordance with GMP principles to workers, and the environment. nologies suitable for controlling compounds ntrol at source and to prevent migration of uncontrolled areas (e.g., open-face con-			
			Jse explosion-pro nent.	oof electrical, ventilating and lighting equip-			
Pers	onal protective equipr	nent					
Fi	iratory protection	s	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Organic vapour type				
Hand	l protection						
М	aterial	: (Chemical-resistan	it gloves			
	emarks	r	nable, which may	ploving. Take note that the product is flam- impact the selection of hand protection.			
Eye ç	protection	 Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if the potential for direct contact to the face with dusts, respectively. 		nment or activity involves dusty conditions, wear the appropriate goggles. I or other full face protection if there is a			
Skin	and body protection	: V A t L	ask being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially			
Hygie	ene measures	: I e ii V V V V V e e a iii	f exposure to che eye flushing syste ng place. When using do no Contaminated wo vorkplace. Wash contaminate The effective oper engineering contro appropriate degov	emical is likely during typical use, provide ones and safety showers close to the work- ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the			

9. PHYSICAL AND CHEMICAL PROPERTIES

SAFETY DATA SHEET



Vers 3.0	sion	Revision Date: 2024/07/09		S Number: 6191-00008	Date of last issue: 2023/09/30 Date of first issue: 2021/02/05
	Appeara	ance	:	liquid	
	Colour		:	dark amber	
	Odour		:	strong	
	Odour T	hreshold	:	No data available	9
	pН		:	No data available	9
	Melting	point/freezing point	:	No data available)
	Initial bo range	piling point and boiling	:	No data available	9
	Flash po	pint	:	37.8 - 40 °C	
	Evapora	ation rate	:	No data available)
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	Not applicable	
		explosion limit / Upper pility limit	:	No data available	9
		explosion limit / Lower pility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	vapour density	:	No data available)
	Relative	density	:	No data available)
	Density		:	No data available)
	Solubilit Wate	y(ies) er solubility	:	immiscible	
	Partition	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decomp	position temperature	:	No data available	
	Viscosit Visco	y osity, kinematic	:	No data available)
	Explosiv	ve properties	:	Not explosive	





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Oxid	izing properties	:	The substance of	or mixture is not classified as oxidizing.			
Mole	cular weight	:	No data availabl	e			
	cle characteristics cle size	:	Not applicable				
10. STAB		Y					
Cher	ctivity nical stability ibility of hazardous reac·	:	Stable under no Flammable liquit Vapours may for				
Incor	ditions to avoid mpatible materials ardous decomposition ucts	:	 Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known. 				
11. TOXI	COLOGICAL INFORMA	τιοι	N				
	Information on likely routes of exposure		Inhalation Skin contact Ingestion Eye contact				
	e toxicity nful if swallowed or if inha	aled.					
Prod Acute	luct: e oral toxicity	:	Acute toxicity est Method: Calculat	imate: 769.23 mg/kg ion method			
Acut	e inhalation toxicity	:	Acute toxicity estimate: 3.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method				
<u>Com</u>	ponents:						
Pern	nethrin (ISO):						
Acut	e oral toxicity	:	LD50 (Rat): 480	- 554 mg/kg			
Acut	e inhalation toxicity	:	LC50 (Rat): 2.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist				
Acut	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg				

SAFETY DATA SHEET



)	Revision Date: 2024/07/09	SDS Number: 7766191-00008	Date of last issue: 2023/09/30 Date of first issue: 2021/02/05
1-Met	hoxy-2-propanol:		
Acute	oral toxicity	: LD50 (Rat): 4	,016 mg/kg
Acute	inhalation toxicity	: LC50 (Mouse Exposure tim Test atmosph	e: 6 h
Acute	dermal toxicity	: LD50 (Rat): > Assessment: toxicity	2,000 mg/kg The substance or mixture has no acute derma
	hoxypropanol:		
Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure tim Test atmosph	e: 4 h
	oonents:		
Speci	ethrin (ISO):	: Rabbit	
Resul		: No skin irritat	ion
	it.		
1-Met	hoxy-2-propanol:		
1-Met Speci Resul	: hoxy-2-propanol: es	: Rabbit : No skin irritat	
Speci Resul	t hoxy-2-propanol: es t t	: Rabbit : No skin irritat	
Speci Resul 2-Met	t hoxy-2-propanol: es t t t hoxypropanol: es	: Rabbit : No skin irritat : Rabbit	ion
Speci Resul	t hoxy-2-propanol: es t t hoxypropanol: es t	: Rabbit : No skin irritat : Rabbit : No skin irritat	ion
Speci Resul 2-Met Speci Resul Rema	t hoxy-2-propanol: es t t hoxypropanol: es t	: Rabbit : No skin irritat : Rabbit : No skin irritat : Based on dat	ion
Speci Resul Speci Resul Rema Serio Not cl	choxy-2-propanol: es t choxypropanol: es t urks us eye damage/eye assified based on ava	: Rabbit : No skin irritat : Rabbit : No skin irritat : Based on dat	ion
Speci Resul Speci Resul Rema Serio Not cl <u>Comp</u>	choxy-2-propanol: es t choxypropanol: es t arks us eye damage/eye assified based on ava <u>ponents:</u>	: Rabbit : No skin irritat : Rabbit : No skin irritat : Based on dat	ion
Speci Resul Speci Resul Rema Serio Not cl <u>Comp</u> Perm	<pre>choxy-2-propanol: es t choxypropanol: es t us eye damage/eye assified based on ava conents: ethrin (ISO):</pre>	: Rabbit : No skin irritat : Rabbit : No skin irritat : Based on dat irritation ailable information.	ion
Speci Resul Speci Resul Rema Serio Not cl <u>Comp</u>	<pre>choxy-2-propanol: es t choxypropanol: es t us eye damage/eye assified based on ava conents: ethrin (ISO): es</pre>	: Rabbit : No skin irritat : Rabbit : No skin irritat : Based on dat	ion ion a from similar materials
Speci Resul Speci Resul Rema Serio Not cl Comp Perm Speci Resul	<pre>choxy-2-propanol: es t choxypropanol: es t arks us eye damage/eye assified based on ava conents: ethrin (ISO): es t choxy-2-propanol:</pre>	: Rabbit : No skin irritat : Rabbit : No skin irritat : Based on dat irritation ailable information. : Rabbit	ion ion a from similar materials





Permethrin (65%) Formulation

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2-Mo	thoxypropanol:				
Resu		: No eye ir	rritation		
Rema				n similar materials	
Resp	iratory or skin sensi	tisation			
Skin	sensitisation				
May o	cause an allergic skin	reaction.			
-	iratory sensitisation lassified based on ava	ailable informatio	on.		
Com	ponents:				
Perm	ethrin (ISO):				
Test	Туре	: Buehler			
	sure routes	: Skin con			
Speci Resu		: Guinea p : positive	Jig		
Asses	ssment	: Probabili	ity or evide	nce of skin sensitisat	tion in humans
1-Met	thoxy-2-propanol:				
Test			ation Test		
Expo Speci	sure routes	: Skin con : Guinea p			
Resu	• .	: negative	-		
2-Met	thoxypropanol:				
Test	Туре	: Maximisa	ation Test		
	sure routes	: Skin con			
Speci Resu		: Guinea p : negative	-		
Rema				n similar materials	
Germ	cell mutagenicity				
	lassified based on ava	ilable informatio	on.		
<u>Com</u>	ponents:				
Perm	ethrin (ISO):				
Geno	toxicity in vitro	: Test Typ Result: n		al reverse mutation as	ssay (AMES)
		Test Typ Result: n		mammalian cell gene	mutation test
			- J		

Test Type: Chromosome aberration test in vitro Result: negative





ersion 0	Revision Date: 2024/07/09	SDS Number: 7766191-00008	Date of last issue: 2023/09/30 Date of first issue: 2021/02/05				
			A damage and repair, unscheduled DNA syn- ialian cells (in vitro) e				
		Test Type: Chr Result: positive	omosome aberration test in vitro				
Geno	toxicity in vivo	: Test Type: Mar cytogenetic ass Species: Mouse Result: negative					
		Test Type: Rod Species: Mouse Result: negative					
		cytogenetic ass Species: Rat	te: Intraperitoneal injection				
	n cell mutagenicity - ssment	: Weight of evidence does not support classification as a ger cell mutagen.					
II 1-Met	thoxy-2-propanol:						
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)				
		Test Type: Chr Result: negativ	omosome aberration test in vitro				
		Test Type: In vi Result: negative	tro mammalian cell gene mutation test				
		Test Type: In vi malian cells Result: equivoc	tro sister chromatid exchange assay in mam al				
		Test Type: DN/	A damage and repair, unscheduled DNA syn-				



rsion)	Revision Date: 2024/07/09	SDS Number: 7766191-00008	Date of last issue: 2023/09/30 Date of first issue: 2021/02/05
			malian cells (in vitro) D Test Guideline 482 ve
Genotoxicity in vivo		cytogenetic as Species: Mous	se functioneal injection
2-Met	thoxypropanol:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Result: negati	rromosome aberration test in vitro ve ed on data from similar materials
		Result: negati	vitro mammalian cell gene mutation test ve sed on data from similar materials
		malian cells Result: equivo	vitro sister chromatid exchange assay in mam- ocal sed on data from similar materials
		thesis in mam	IA damage and repair, unscheduled DNA syn- malian cells (in vitro) D Test Guideline 482 ve
			ed on data from similar materials
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro Result: negati	se bute: Intraperitoneal injection
		cytogenetic te Species: Mous Application Ro Result: negati	pute: Ingestion

Carcinogenicity

Not classified based on available information.



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<u>Com</u>	ponents:			
Perm	nethrin (ISO):			
Spec Resu		: R : ne	at egative	
Spec Resu			ouse egative	
Spec Appli	cation Route sure time od	: 2 : 0	at halation (vapo Years ECD Test Gui egative	
•	oductive toxicity classified based on ava	ilable info	ormation.	
Com	ponents:			
Perm	nethrin (ISO):			
Effec	ts on fertility	S A	est Type: Two becies: Rat oplication Rou esult: negative	
Effec ment	ts on foetal develop-	re Si Aj		
1-Me	thoxy-2-propanol:			
	ts on fertility	S A M	pecies: Rat	-generation reproduction toxicity study te: inhalation (vapour) Test Guideline 416
Effec ment	ts on foetal develop-	S A	pecies: Rat	oryo-foetal development te: inhalation (vapour)
2-Me	thoxypropanol:			
	ts on foetal develop-	S A	est Type: Emb becies: Rabbi oplication Rou esult: positive	
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Repro sessn		: Clear evidence animal experin	e of adverse effects on development, based on nents.
	- single exposure		
-	cause drowsiness or di ponents:	ZZINESS.	
	thoxy-2-propanol:		
Asses		: May cause dro	owsiness or dizziness.
2-Met	thoxypropanol:		
	ssment		piratory irritation.
Rema	arks	: Based on nation	onal or regional regulation.
STOT	- repeated exposure		
	lassified based on avai		
Repe	ated dose toxicity		
Com	oonents:		
Perm	ethrin (ISO):		
Speci		: Rat	
NOA		: 0.2201 mg/l : Inhalation	
	cation Route sure time	: 90 Days	
Speci	es	: Rat	
NOAE	ΞL	: 175 mg/kg	
Applic	cation Route sure time	: Ingestion : 90 Days	
		. 90 Days	
1-Met	thoxy-2-propanol:		
Speci		: Rat	
NOA	L cation Route	: 919 mg/kg : Ingestion	
	sure time	: 35 Days	
Speci	es	: Rat	
NOAE	ΞL	: 1.1 mg/l	
Applic	cation Route	: inhalation (vap	oour)
Expos Metho	sure time od	: 2 yr : OECD Test Gu	uideline 453
Speci NOAE		: Rabbit : 1,838 mg/kg	
	cation Route	: Skin contact	
	sure time	: 90 Days	





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2-Met	thoxypropanol:		
Speci NOAE Applic	ies	: Rat : 10.5 mg/l : inhalation (vap : 28 Days	pour)
Species NOAEL Application Route Number of exposures Remarks		: Rat : > 300 mg/l : Ingestion : 25 Days : Based on data	a from similar materials
	EL cation Route per of exposures	: Rabbit : > 200 mg/l : Skin contact : 90 Days : Based on data	a from similar materials

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Permethrin (ISO):

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00079 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0001 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.13 mg/l Exposure time: 72 h
		EC10 (Pseudokirchneriella subcapitata (green algae)): 0.0023 mg/l Exposure time: 72 h
M-Factor (Acute aquatic tox- icity)	:	10,000
Toxicity to fish (Chronic tox- icity)	:	NOEC (Danio rerio (zebra fish)): 0.00041 mg/l Exposure time: 35 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 0.0047 µg/l Exposure time: 21 d



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ic toxi	city)		Method: OECD	Test Guideline 211				
	ctor (Chronic aquatic	:	10,000					
toxicit Toxici	y) ty to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h					
1-Met	hoxy-2-propanol:							
Toxici	ty to fish	:	LC50 (Leuciscus Exposure time: 9 Method: DIN 384					
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: 4	magna (Water flea)): 23,300 mg/l 48 h				
	Toxicity to algae/aquatic plants		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					
2-Met	hoxypropanol:							
	ty to fish	:	Exposure time: 9	s idus (Golden orfe)): > 100 mg/l 96 h d on data from similar materials				
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): > 100 mg/l 48 h d on data from similar materials				
Toxici plants	ty to algae/aquatic	:	Exposure time: 7 Method: ISO 102					
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 Method: OECD	n magna (Water flea)): > 1 mg/l 21 d Test Guideline 211 d on data from similar materials				
Toxici	ty to microorganisms	:		3 h Test Guideline 209 3 on data from similar materials				





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Persist	tence and degradat	ility		
<u>Compo</u>	onents:			
Permet	thrin (ISO):			
Biodeg	radability	: Result: Not readily biodegradable. Method: OECD Test Guideline 301F		
1-Meth	oxy-2-propanol:			
Biodeg	radability	 Result: Readily biodegradable. Biodegradation: 96 % Exposure time: 28 d Method: OECD Test Guideline 301E 		
2-Meth	oxypropanol:			
Biodeg	radability	: Result: Readily biodegradable. Remarks: Based on data from similar materials		
Bioacc	umulative potentia			
Compo	onents:			
Permet	thrin (ISO):			
Bioaccu	umulation	: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 570		
Partitio octanol	n coefficient: n- /water	: log Pow: 4.67		
	oxy-2-propanol:			
octanol		: log Pow: < 1		
	oxypropanol: n coefficient: n- /water	: log Pow: -0.49 Remarks: Calculation		
	y in soil a available			
	adverse effects a available			
3. DISPOS		INS		
Disnos	al methods			
-	from residues	: Do not dispose of waste into sewer.		
Contan	ninated packaging	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste dling site for recycling or disposal. 		



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		Do not pressu pose such cor of ignition. The	ers retain residue and can be dangerous. rize, cut, weld, braze, solder, drill, grind, or ex- ntainers to heat, flame, sparks, or other sources by may explode and cause injury and/or death. e specified: Dispose of as unused product.
14. TRA	NSPORT INFORMATION	l	
Inte	ernational Regulations		
UN Pro Cla Pa Lat	RTDG number oper shipping name	: UN 3092 : 1-METHOXY- : 3 : III : 3 : no	2-PROPANOL SOLUTION
Pro Cla Pau Lat Pau aire Pau	/ID No. oper shipping name lss cking group bels cking instruction (cargo craft) cking instruction (passen- aircraft)	: UN 3092 : 1-Methoxy-2-p : 3 : III : Flammable Lio : 366 : 355	propanol solution quids
IMI UN Pro Cla Pa Lat Em	DG-Code number oper shipping name	: UN 3092 : 1-METHOXY-: (Permethrin (I : 3 : III : 3 : F-E, S-D : yes	2-PROPANOL SOLUTION SO))

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

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

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





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	llation of the Minister c rdous to Health	of He	ealth No. 472 of	1996 (on	the Safeguarding of Substances
Haza	rdous substances that m	nust	be registered		:	Not applicable
Gove stand	-	. 74	of 2001 on the M	Manag	jen	nent of Hazardous and Toxic Sub-
Haza	rdous substances appro	oved	for use		:	Not applicable
Prohi	bited substances				:	Not applicable
Restr	icted substances				:	Not applicable
Regu Mate		of Tr	ade No. 7 of 202	2 on l	Dis	stribution and Control of Hazardou
	of hazardous materials ol, Annex I	subj	ect to distribution	and	:	Not applicable
	of hazardous materials ol, Annex II	subj	ect to distribution	and	:	Not applicable
	components of this pro	oduc	-	n the f	oll	lowing inventories:
AICS		:	not determined			
DSL		:	not determined			
IECS	С	:	not determined			
6. OTHE	R INFORMATION					
Revis	sion Date	:	2024/07/09			
Furth	ner information					
	ces of key data used to bile the Safety Data t	:		earch	res	lata from raw material SDSs, OECD sults and European Chemicals Agen 』/
	where changes have be ment by two vertical line		made to the prev	ious v	ers	sion are highlighted in the body of thi
Date	format	:	yyyy/mm/dd			
Full t	ext of other abbreviati	ons				
ACG ID OI	IH	:				Limit Values (TLV) Exposure Limits
ACG	IH / TWA	:	8-hour, time-we	ighted	a١	verage
			, -	-		-



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3.0	2024/07/09	7766191-00008	Date of first issue: 2021/02/05

ACGIH / STEL	:	Short-term exposure limit
ID OEL / NAB	:	Long term exposure limit
ID OEL / PSD	:	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 specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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