

according to the Hazardous Products Regulations

Cypermethrin Liquid Formulation

Version 1.7	Revision Date: 06/26/2024		DS Number: 1849847-00008	Date of last issue: 04/16/2024 Date of first issue: 09/12/2022		
SECTIO	SECTION 1. IDENTIFICATION					
Product name Other means of identification		:	Cypermethrin Liquid Formulation VANQUISH LONG WOOL SPRAY-ON LICE TREATMENT AND BLOWFLY STRIKE PREVENTIVE FOR LONG WOOLLED SHEEP AND UNSHORN LAMBS (38354) Vanquish (A005997)			
Ма	nufacturer or supplier's o	deta	ails			
Ado Tel Em	Company name of supplier Address Telephone Emergency telephone E-mail address		 Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065 908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com 			
Ree	Recommended use of the chemical and restrictions on use					
	Recommended use Restrictions on use		Veterinary product Not applicable			
SECTION 2. HAZARDS IDENTIFICATION						
GHS classification in accordance with the Hazardous Products Regulations						
Ski	n sensitization	:	Sub-category 1A			
Ca	rcinogenicity	:	Category 1B			

Specific target organ toxicity	:	Category 2 (Nervous system)
 single exposure 		

GHS label elements

Hazard pictograms :	
Signal Word :	Danger
Hazard Statements :	H317 May cause an allergic skin reaction. H350 May cause cancer. H361f Suspected of damaging fertility. H371 May cause damage to organs (Nervous system).
Precautionary Statements :	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors.

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		P270 Do not ea P272 Contamina the workplace.	n thoroughly after handling. t, drink or smoke when using this product. ated work clothing should not be allowed out of ective gloves, protective clothing, eye protection tion.
		P308 + P311 IF P333 + P313 If tion.	ON SKIN: Wash with plenty of water. exposed or concerned: Call a doctor. skin irritation or rash occurs: Get medical atten- ake off contaminated clothing and wash it before
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o disposal plant.	f contents and container to an approved waste

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components			
Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Propylene glycol	1,2-Propanediol	57-55-6	6
Cypermethrin	No data availa- ble	52315-07-8	5.19
Formaldehyde	Methyl aldehyde	50-00-0	0.24

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.
		Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and 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.
,		Get medical attention if irritation develops and persists.



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Get medical attention Rinse mouth tho	NOT induce vomiting. ntion. roughly with water. ing by mouth to an unconscious person.
: May cause an all May cause cance Suspected of dat	lergic skin reaction. er. maging fertility.
 First Aid responders should pay attention to self-prot and use the recommended personal protective equip when the potential for exposure exists (see section 8 	
	10849847-00008 : If swallowed, DC Get medical atte Rinse mouth tho Never give anyth : May cause an al May cause cance Suspected of dat May cause dama : First Aid respond and use the reco

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
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- : tive equipment and emer- gency procedures	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	Soak up with inert absorbent material. 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

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		absorbent. Local or nationa disposal of this r employed in the determine which Sections 13 and	ing materials from spill with suitable I regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding national requirements.		
SECTION	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.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe 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 Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

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
Propylene glycol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m³	CA ON OEL
		TWA (aero- sol)	10 mg/m ³	CA ON OEL
Cypermethrin	52315-07-8	TWA	50 µg/m3 (OEB 3)	Internal



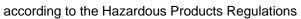
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		Further inform	ation: DSEN.	Skin				
			Wipe limit	100 µg/100 cm2	Internal			
Forma	aldehyde	50-00-0	TŴA	0.75 ppm 0.9 mg/m ³	CA AB OE			
			(c)	1 ppm 1.3 mg/m ³	CA AB OE			
			TWA	0.1 ppm	CA BC OE			
			STEL	0.3 ppm	CA BC OE			
			STEL	1 ppm	CA ON OE			
			С	1.5 ppm	CA ON OE			
			С	1.5 ppm	CA QC OE			
			TWA	0.1 ppm	ACGIH			
			STEL	0.3 ppm	ACGIH			
	onal protective equip	ment						
Perso	onal protective equip	Laboratory op		and the environment. ot require special conta	ainment.			
	ratory protection		cal exhaust ve	entilation is not availab	le or			
-				onstrates exposures or se respiratory protecti				
	ter type	: Combined pa	rticulates and	organic vapor type				
	protection							
Ma	aterial	: Chemical-resi	Chemical-resistant gloves					
Еуе р	rotection	If the work en mists or aeros Wear a faces	: 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					
	and body protection ne measures	 Work uniform If exposure to eye flushing s working place When using d Contaminated workplace. Wash contam The effective engineering c appropriate de 	chemical is lil ystems and sa o not eat, drin work clothing inated clothing operation of a ontrols, prope egowning and	kely during typical use afety showers close to	the d out of the review of equipment, edures,			

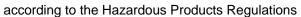
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance





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Color		:	pink	
			red	
Odor		:	No data available	
Odor Th	reshold	:	No data available	
рН		:	3.0 - 6.0	
Melting	point/freezing point	:	No data available	
Initial bo range	iling point and boiling	:	No data available	
Flash po	bint	:	No data available	
Evapora	tion rate	:	No data available	
Flamma	bility (solid, gas)	:	Not applicable	
Flamma	bility (liquids)	:	No data available	
Upper e: flammat	xplosion limit / Upper vility limit	:	No data available	
Lower e	xplosion limit / Lower sility limit	:	No data available	
Vapor p	ressure	:	No data available	
Relative	vapor density	:	No data available	
Relative	density	:	1.02	
Density		:	No data available	
Solubility Wate	y(ies) r solubility	:	soluble	
	coefficient: n-	:	Not applicable	
octanol/ Autoigni	water tion temperature	:	No data available	
Decomp	osition temperature	:	No data available	
Viscosity Visco	/ osity, kinematic	:	No data available	
Explosiv	e properties	:	Not explosive	
Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.





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Molec	ular weight	: No data availat	le	
Particle characteristics Particle size		: Not applicable		

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20000 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
Propylene glycol:		
Acute oral toxicity		
reade oral textology	•	LD50 (Rat): 22,000 mg/kg
Acute inhalation toxicity	:	



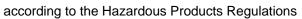


rsion	Revision Date: 06/26/2024		0S Number: 849847-00008	Date of last issue: 04/16/2024 Date of first issue: 09/12/2022
_			toxicity	
Суре	rmethrin:			
	oral toxicity	:	LD50 (Rat, fema	ale): 367 mg/kg
			LD50 (Rat, male	e): 891 mg/kg
Acute	e dermal toxicity	:	LD50 (Rat): > 4	800 mg/kg
			LD50 (Rabbit): :	> 2,400 mg/kg
Form	aldehyde:			
Acute	e oral toxicity	:	Method: Expert	stimate: 100 mg/kg judgment d on national or regional regulation.
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Expert	e: gas
Acute	e dermal toxicity	:	LD50 (Rabbit): 2	270 mg/kg
<u>Com</u>	lassified based on ava <u> oonents:</u>	anabie	iniornation.	
	ylene glycol:	_	Dabbit	
Speci Metho		:	Rabbit OECD Test Gui	deline 404
Resu		:	No skin irritation	
Cype	rmethrin:			
Speci		:	Rabbit	
Metho	bc	:	Draize Test	
Resu	lt	:	No skin irritation	
Form	aldehyde:			
Resu		:		3 minutes to 1 hour of exposure
Rema	arks	:	Based on natior	al or regional regulation.
			on	
	us eye damage/eye			
	us eye damage/eye lassified based on ava			
Not c				
Not c <u>Com</u> Prop	lassified based on ava ponents: ylene glycol:		information.	
Not c <u>Com</u>	lassified based on ava ponents: ylene glycol: jes			



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Metho	od	: OECD Test Gu	uideline 405
Сурег	rmethrin:		
Specie	es	: Rabbit	
Result		: No eye irritatio	n
Metho	od	: Draize Test	
Forma	aldehyde:		
Result	-		ects on the eye
Rema	rks	: Based on skin	corrosivity.
Respi	ratory or skin sensi	tization	
••••••	sensitization		
	ause an allergic skin	reaction.	
-	ratory sensitization assified based on ava	ailable information.	
	oonents:		
Propy	/lene glycol:		
Test T	уре	: Maximization	Fest
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result	t	: negative	
Сурег	rmethrin:		
Test T		: Magnusson-Kl	igman-Test
Specie		: Guinea pig	
	sment		sensitization on laboratory animals.
Result	t	: Not a skin sen	Sitizer.
Forma	aldehyde:		
Test T			insult patch test (HRIPT)
	s of exposure	: Skin contact	
Specie Result		: Humans	
		: positive	
Asses	sment	: Probability or e humans	evidence of high skin sensitization rate
Germ	cell mutagenicity		
	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
	lene glycol:	_	
Genot	toxicity in vitro		cterial reverse mutation assay (AMES
		Result: negativ	/e



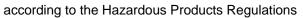


Versior 1.7	Revision Date: 06/26/2024		DS Number: 849847-00008	Date of last issue: 04/16/2024 Date of first issue: 09/12/2022
				nosome aberration test in vitro est Guideline 473
Ge	enotoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
Су	permethrin:			
Ge	enotoxicity in vitro	:	Test Type: Chron Test system: Hun Result: negative	nosome aberration test in vitro nan lymphocytes
			Test Type: Microl Result: negative	pial mutagenesis assay (Ames test)
			Test Type: sister Test system: Hun Result: negative	chromatid exchange assay nan lymphocytes
Ge	enotoxicity in vivo	:	Test Type: In vivo Species: Rat Application Route Result: positive	o micronucleus test e: Oral
			Test Type: In vivo Species: Rat Application Route Result: positive	o micronucleus test e: Dermal
			Species: Rat	o micronucleus test e: Intraperitoneal injection
	erm cell mutagenicity - sessment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
Fo	rmaldehyde:			
	enotoxicity in vitro	:	Test Type: Bacter Result: positive	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: positive	o mammalian cell gene mutation test
			Test Type: Chron Result: positive	nosome aberration test in vitro
Ge	enotoxicity in vivo	:	Test Type: In vivo Species: Mouse	o mammalian alkaline comet assay



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			Application Route Result: positive	: Inhalation
	n cell mutagenicity - ssment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
	i nogenicity cause cancer.			
Com	ponents:			
Spec Appli	cation Route sure time	: : :	Rat Ingestion 2 Years negative	
Spec Appli	cation Route sure time		Rat inhalation (gas) 28 Months positive	
Carci ment	nogenicity - Assess-	:	Sufficient evidence	e of carcinogenicity in animal experiments
-	oductive toxicity ected of damaging fertilit	y.		
Com	ponents:			
	ylene glycol: ts on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study
Effec	ts on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development
Суре	ermethrin:			
	ts on fertility	:		le
			Test Type: Fertilit Species: Rat, ma Application Route	le

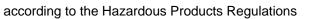




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				6.25 mg/kg body weight nale reproductive organs, Testis
Effect	s on fetal development	:	Species: Mouse Application Route General Toxicity Symptoms: No e	e-generation reproduction toxicity study e: Oral Maternal: NOAEL: 5 mg/kg body weight ffects on fetal development., No effect on acity., Reduced body weight
			test Species: Rabbit Application Route Teratogenicity: N	oduction/Developmental toxicity screening e: Oral IOAEL: 30 mg/kg body weight ffects on fetal development.
			test Species: Rat Application Route Teratogenicity: N	oduction/Developmental toxicity screening e: Oral IOAEL: 17.5 mg/kg body weight ffects on fetal development.
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and animal experiments.
Form	aldehyde:			
	s on fetal development	:	Species: Rat	yo-fetal development e: inhalation (gas)
STOT	-single exposure			
	cause damage to organs	i (Ne	ervous system).	
<u>Com</u>	oonents:			
Суре	rmethrin:			
	et Organs ssment	:	Nervous system May cause dama	age to organs.
Form	aldehyde:			
	ssment	:	May cause respi	ratory irritation.

Not classified based on available information.

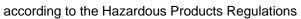




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ersion .7	Revision Date: 06/26/2024	SDS Number: 10849847-0000	Date of last issue: 04/16/2024 Date of first issue: 09/12/2022
Repe	ated dose toxicity		
Com	ponents:		
Prop	ylene glycol:		
		: Rat, male : >= 1,700 mg : Ingestion : 2 y	g/kg
Суре	rmethrin:		
Expo		: Rat : 5 mg/kg : Oral : 3 Months : Central nerv	/ous system
Expo		: Rabbit : 12.5 mg/kg : Oral : 3 Months : Central nerv	vous system
	EL cation Route sure time	: Dog : 1 mg/kg : Oral : 1 y : anxiety, cen	tral nervous system effects
Expo	EL cation Route sure time at Organs		luctive organs dy weight gain, reduced food consumption
-	r ation toxicity lassified based on av	ailable information	
	rience with human of		
•	ponents:	syboon e	
	r methrin: ral Information	Symptoms:	ns: Nervous system muscle weakness, central nervous system effec ased on Human Evidence

ral Information : Target Organs: Nervous system Symptoms: muscle weakness, central nervous system effects Remarks: Based on Human Evidence The most common side effects are: Remarks: paraesthesias





ersion 7	Revision Date: 06/26/2024		9S Number: 849847-00008	Date of last issue: 04/16/2024 Date of first issue: 09/12/2022
Furthe	er information			
Comp	onents:			
Cyper Rema	r methrin: rks	:	Dermal absorption	n possible
	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	xicity			
<u>Comp</u>	onents:			
Propy	lene glycol:			
Toxicit	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l Sh
	ty to daphnia and other c invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 3 h
Toxicit plants	ty to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: OECD Te	
aquati	ty to daphnia and other c invertebrates (Chron-	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d
ic toxic Toxicit	ty to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
Cyper	methrin:			
•••	ty to fish	:	EC50 (Oncorhyno Exposure time: 96	hus mykiss (rainbow trout)): 0.39 μg/l δ h
			EC50 (Cyprinodo μg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0.95 Sh
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0036 μg/l } h
			EC50 (Americamy Exposure time: 48	/sis): 0.00475 μg/l } h
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 30	es promelas (fathead minnow)): 0.14 μg/l) d
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Mysidops Exposure time: 28	is bahia (opossum shrimp)): 0.000781 μg/l 3 d
Form	aldehyde:			



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То	xicity to fish	:	LC50 (Morone sax Exposure time: 96	atilis (striped bass)): 6.7 mg/l h
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ılex (Water flea)): 5.8 mg/l h
To: pla	xicity to algae/aquatic nts	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
aqı	xicity to daphnia and other uatic invertebrates (Chron- oxicity)		NOEC (Daphnia magna (Water flea)): 1.04 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
То	Toxicity to microorganisms		EC50 (activated sludge): 19 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Pe	rsistence and degradabil	ity		
<u>Co</u>	mponents:			
	opylene glycol: degradability	:	Result: Readily bio Biodegradation: 9 Exposure time: 28 Method: OECD Te	8.3 [°] % d
	permethrin: ability in water	:	Degradation half li	fe (DT50): 17 d
	rmaldehyde: odegradability	:	 Result: Readily biodegradable. Biodegradation: 99 % Exposure time: 28 d Method: OECD Test Guideline 301A 	
Bic	baccumulative potential			
<u>Co</u>	mponents:			
Pa	opylene glycol: rtition coefficient: n- anol/water	:	log Pow: -1.07 Method: Regulatio	n (EC) No. 440/2008, Annex, A.8
	permethrin: baccumulation	:	Bioconcentration f	actor (BCF): 488
	rtition coefficient: n- anol/water	:	log Pow: 6.6	



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Partitic	aldehyde: on coefficient: n- ol/water	: log Pow: 0.35 Remarks: Cal		
Mobili	ty in soil			
<u>Comp</u>	onents:			
Distrib menta	methrin: ution among environ- l compartments ty in soil	: log Koc: 5.58 :		
•	adverse effects a available			

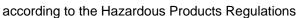
Dis	nosal	method	S
ັບເຈ	nosai	memou	э

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UN number	:	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	÷	Environmentally hazardous substance, liquid, n.o.s.
r roper snipping name	•	(Cypermethrin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082





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Class Packir Labels EmS (Marine	ng group s Code e pollutant	N.O.S. (Cypermethrin : 9 : III : 9 : F-A, S-F : yes	(Cypermethrin) 9 III 9 F-A, S-F			
Not ap	oplicable for product a	s supplied.				
Dome	estic regulation					
TDG UN nu Prope	umber r shipping name	: UN 3082 : ENVIRONME N.O.S. (Cypermethri	NTALLY HAZARDOUS SUBSTANCE, LIQUID,			
Class Packing group		: 9 : III	"'			

Special precautions for user

Labels ERG Code

Marine pollutant

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

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

: 9

: 171

: yes(Cypermethrin)

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations					
ACGIH	USA. ACGIH Threshold Limit Values (TLV)				
CA AB OEL	Canada. Alberta, Occupational Health and Safety 2: OEL)	Code (table			
CA BC OEL	Canada. British Columbia OEL				
CA ON OEL	Ontario Table of Occupational Exposure Limits mathe Occupational Health and Safety Act.	ade under			
CA QC OEL	Québec. Regulation respecting occupational healt ty, Schedule 1, Part 1: Permissible exposure value borne contaminants				



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ACGI CA AE CA AE CA BO CA BO CA OI CA OI CA OI	H / TWA H / STEL 3 OEL / TWA 3 OEL / (c) C OEL / TWA C OEL / STEL N OEL / C N OEL / TWA N OEL / STEL C OEL / C	::	ceiling occupatio 8-hour time weig short-term expos Ceiling Limit (C) Time-Weighted	sure limit onal exposure limit nal exposure limit hted average

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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	06/26/2024 mm/dd/yyyy

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



according to the Hazardous Products Regulations

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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.

CA / Z8