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Continue 4	. Identification		
	: Identification		
Prod	uct identifier	: Pirimiphos-M	lethyl / Lambda-Cyhalothrin Formulation

Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			
Manufacturer or supplier's details					
Company	:	MSD			
Address	:	50 Tuas West Drive Singapore - Singapore 638408			
Telephone	:	+1-908-740-4000			

Emergency telephone number	:	65 6697 2111 (24/7/365)

E-mail address	:	EHSDATASTEWARD@msd.com

Section 2: Hazard identification

Classification of the substance or mixture

Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 3
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2
Specific target organ toxicity - single exposure	:	Category 1 (Central nervous system)
Specific target organ toxicity - single exposure	:	Category 2 (Nervous system)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS Label elements, including precautionary statements



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	rd pictograms	: Danger	
Signal word Hazard statements		: H302 Harmful H315 Causes H319 Causes H331 Toxic if H370 Causes H371 May cau	skin irritation. serious eye irritation.
Preca	autionary statements	P264 Wash sł P270 Do not e P271 Use only P273 Avoid re	preathe dust/ fume/ gas/ mist/ vapours/ spray. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. lease to the environment. otective gloves/ eye protection/ face protection.
		CENTER/ doc P302 + P352 P304 + P340 and keep com doctor. P305 + P351 for several min easy to do. Co P308 + P311 CENTER/ doc P332 + P313 tion. P337 + P313 tention.	If skin irritation occurs: Get medical advice/ atten- If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before
		Storage: P405 Store loc Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste



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Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Polyvinyl chloride	9002-86-2	>= 70 -< 90
Pirimiphos-methyl (ISO)	29232-93-7	>= 10 -< 20
lambda-cyhalothrin (ISO)	91465-08-6	>= 2.5 -< 10
Titanium dioxide	13463-67-7	>= 0.1 -< 1

Section 4: First-aid measures

Description of necessary 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 advice.				
If inhaled	:	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 eye contact	:	o ,				
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.				
Most important symptoms and effects, both acute and delayed						
Risks	:	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. Causes damage to organs.				
Protection of first-aiders	:					



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		when the pot	ential for exposure exists (see section 8).
Indic	ation of any immediate	medical attentio	n and special treatment needed
Treat	ment	: Treat sympto	matically and supportively.
Section 5	: Fire-fighting measure	S	
Exting	guishing media		
Suita	ble extinguishing media	: Water spray Alcohol-resis Carbon dioxi Dry chemical	de (CO2)
Unsu media	itable extinguishing a	: None known.	
Spec	ial hazards arising fror	n the substance	or mixture
fightii	ific hazards during fire- ng rdous combustion prod-	 Exposure to combustion products may be a hazard to he Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Fluorine compounds 	
Snec	ial protective actions for		
Spec for fir	ial protective equipment efighters ific extinguishing meth-	 In the event of Use persona Use extinguis cumstances a Use water sp 	of fire, wear self-contained breathing apparatus. I protective equipment. shing measures that are appropriate to local cir- and the surrounding environment. aray to cool unopened containers. amaged containers from fire area if it is safe to do ea.
Section 6	: Accidental release me	easures	
Dene e '			
	precautions, protective onal precautions	: Use persona Follow safe h	emergency procedures I protective equipment. andling advice (see section 7) and personal pro- ment recommendations (see section 8).
	ental precautions onmental precautions	Prevent furth	e to the environment. er leakage or spillage if safe to do so. ispose of contaminated wash water.

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

Methods for cleaning up : Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air.



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		Soak up with ine Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	d to allow the material to enter into solution. rt absorbent material. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.

Section 7: Handling and storage

Precautions for safe handling					
Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
Local/Total ventilation	If sufficient ventilation is unavailable, use with local exhaust ventilation.				
Advice on safe handling :	Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment 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.				
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.				
Conditions for safe storage, including any incompatibilities					
Conditions for safe storage :	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.				
Materials to avoid	Do not store with the following product types: Explosives				



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Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Polyvinyl chloride	9002-86-2	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3	ACGIH
Pirimiphos-methyl (ISO)	29232-93-7	TWA	60 µg/m3 (OEB 3)	Internal
	Further inform	ation: Skin		
		Wipe limit	600 µg/100 cm ²	Internal
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 µg/m3 (OEB 4)	Internal
	Further inform	ation: Skin		
		Wipe limit	50 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	PEL (long term)	10 mg/m3	SG OEL

Appropriate engineering control measures	:	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Individual protection measu	ires	, such as personal protective equipment (PPE)
Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions,

	The work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin protection :	Work uniform or laboratory coat.
	Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially
	contaminated clothing.
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type



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	Mate	erial	:	Chemical-resistan	t gloves
	Rem	arks	:	Consider double g	gloving.
Section	on 9: F	Physical and chemica	l pr	operties	
А	Appeara	ance	:	solid	
C	Colour		:	No data available	9
C	Ddour		:	characteristic	
C	Ddour T	Fhreshold	:	No data available)
р	Н		:	No data available	
N	Aelting	point/freezing point	:	No data available)
	nitial bo ange	piling point and boiling	:	No data available	
F	lash p	oint	:	Not applicable	
E	Evapora	ation rate	:	No data available)
F	lamma	ability (solid, gas)	:	Not classified as	a flammability hazard
F	lamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
V	/apour	pressure	:	No data available)
R	Relative	e vapour density	:	No data available)
R	Relative	e density	:	No data available)
D	Density		:	No data available	9
S	Solubilit Wate	ty(ies) er solubility	:	insoluble	
		n coefficient: n-	:	No data available	
	octanol/ Auto-igr	water hition temperature	:	No data available	9



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Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle characteristics Particle size	:	No data available

Section 10: Stability and reactivity

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

Section 11: Toxicological information

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed. Toxic if inhaled.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 654.55 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 0.7676 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method



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Components:

Pirimiphos-methyl (ISO):		
Acute oral toxicity	:	LD50 (Rat): 1,180 mg/kg
		LD50 (Rat): 2,400 - 5,976 mg/kg
		LD50 (Mouse): > 575 mg/kg
		LD50 (Dog): > 1,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.04 mg/l Exposure time: 4 h
Acute dermal toxicity	:	LD50 (Rabbit): 2,000 mg/kg
		LD50 (Rat): > 4,592 mg/kg
II lambda-cyhalothrin (ISO):		
Acute oral toxicity	:	LD50 (Rat): 56 - 79 mg/kg
		LD50 (Mouse): 20 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat): 632 - 696 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): 250 - 750 mg/kg Application Route: Intraperitoneal
Titanium dioxide:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Skin corrosion/irritation		
Causes skin irritation. Components:		
Pirimiphos-methyl (ISO):		
Species Result	:	Rabbit irritating

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lamb	ta ovhalothrin (ISO):		
Speci	da-cyhalothrin (ISO): es	: Rabbit	
Resul		: No skin irritatio	on
	um dioxide:		
Speci Resul	es t	: Rabbit : No skin irritatic	on
	us eye damage/eye i es serious eye irritation		
	oonents:		
	iphos-methyl (ISO):		
Speci	es	: Rabbit	
Resul	t	: Mild eye irritati	on
lambo	da-cyhalothrin (ISO):		
Speci		: Rabbit	
Resul	t	: Mild eye irritati	on
Titani	um dioxide:		
Speci Resul		: Rabbit	n
Resul	L	: No eye irritatio	11
Respi	iratory or skin sensit	isation	
	sensitisation		
	assified based on ava	ilable information.	
•	iratory sensitisation assified based on ava	ilable information	
	oonents:		
	iphos-methyl (ISO):		
Test 1		: Maximisation	Fest
Expos	sure routes	: Dermal	
Speci Resul		: Guinea pig : Not a skin sen	sitizer.
lambo	da-cyhalothrin (ISO):		
Test 1	уре	: Magnusson-Kl	igman-Test
Expos Speci	sure routes	: Dermal	
Speci	es t	: Guinea pig : Not a skin sen	



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Titanium dioxide:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Test Type Exposure routes Species Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Pirimiphos-methyl (ISO):		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: equivocal
		Test Type: sister chromatid exchange assay Result: positive
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Result: negative
		Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Result: negative
lambda-cyhalothrin (ISO):		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
		Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal Result: negative



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Titan	ium dioxide:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	Test Type: In viv Species: Mouse Result: negative	
	i nogenicity lassified based on ava	ilabla	information	
_	ponents:	liable	mormation.	
Pirim	iphos-methyl (ISO):			
Spec Appli	ies cation Route sure time	:	Rat Oral 2 Years negative	
Spec	ies		Mouse	
	cation Route	÷	Oral	
Expo	sure time	÷	80 weeks	
Resu	lt	:	negative	
Carci ment	nogenicity - Assess-	:	Animal testing d	id not show any carcinogenic effects.
lamb	da-cyhalothrin (ISO):			
Spec		:	Mouse	
	cation Route	:	oral (feed)	
Expo Resu	sure time	÷	2 Years negative	
Rema		:		rom similar materials
Spec	ies		Rat	
Appli	cation Route	÷	oral (feed)	
Expo	cation Route sure time	:	2 Years	
Resu	lt	:	negative	
Rema	arks	:	Based on data f	rom similar materials
Titan	ium dioxide:			
Spec		:	Rat	
Appli	cation Route	:	inhalation (dust/	mist/fume)
Expo	sure time	:	2 Years	
Meth		:	OECD Test Gui	deline 453
Resu Rema		:	positive	or mode of action may not be relevant in h
1 Cerric		•	mans.	of mode of action may not be relevant in r
Carci	nogenicity - Assess-	:	Limited evidence	e of carcinogenicity in inhalation studies wit
	J ,			G , .



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ment			animals.	
Not c	oductive toxicity lassified based on availa	able	information.	
	iphos-methyl (ISO):			
	is on fertility	:	Species: Rat Application Route	15.4 mg/kg body weight
Effect ment	s on foetal develop-	:	Result: No effects	
			Result: No effects	
lamb	da-cyhalothrin (ISO):			
	s on fertility	:	Species: Rat Application Route General Toxicity General Toxicity Symptoms: Redu Result: No effects	- Parent: NOAEL: 2 mg/kg body weight F1: LOAEL: 6.7 mg/kg body weight iced offspring weight gain
Effect ment	s on foetal develop-	:	Developmental T Result: No effects body weight gain	
			Test Type: Devel Species: Rabbit Application Route	



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			Developmental Te Result: No effects body weight gain	Maternal: NOAEL: 10 mg/kg body weight oxicity: NOAEL: 30 mg/kg body weight s on foetal development, Reduced maternal Reduced foetal weight on data from similar materials
Caus	- single exposure es damage to organs (C cause damage to organs).
	oonents:	0 (11		
Pirim	iphos-methyl (ISO):			
Targe Asses	et Organs ssment	:	Central nervous s Causes damage	
lamb	da-cyhalothrin (ISO):			
Targe Asses	et Organs ssment	:	Nervous system Causes damage	to organs.
	- repeated exposure	able	information.	
Com	oonents:			
Pirim Rema	iphos-methyl (ISO): arks	:	Not classified due	e to inconclusive data.
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
	iphos-methyl (ISO):			
Expo	EL EL cation Route sure time et Organs		Rat 0.5 mg/kg 2.5 mg/kg Oral 28 d Central nervous s cholinesterase inl	
Expo	EL cation Route sure time et Organs		Dog 2 mg/kg Oral 13 Weeks Central nervous s cholinesterase inl	

Rat :

Species

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Expo	cation Route sure time et Organs otoms	: cholinester	vous system ase inhibition ant adverse effects were reported
Expo	EL cation Route sure time et Organs		vous system ase inhibition
Expo	EL cation Route sure time et Organs		vous system ase inhibition
Speci NOAI LOAE Applie	EL EL cation Route sure time	: Dog : 2.5 mg/kg : 12.5 mg/kg : oral (feed) : 90 d : reduced bo	dy weight gain, reduced food consumption
Expo	ΞL	: Rat : 10 mg/kg : 50 mg/kg : Dermal : 21 d : Nervous sy	stem
Expo	ΞL	: Rat : 0.08 mg/kg : 0.9 mg/kg : Inhalation : 21 d : Nervous sy	
Expo	EL EL cation Route sure time et Organs	: Dog : 0.1 mg/kg : 0.5 mg/kg : Oral : 1 yr : Nervous sy : Gastrointes	stem tinal disturbance, Vomiting, Convulsions, ataxia,



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Liver effects

Titanium dioxide: Species NOAEL Application Route Exposure time		Rat 24,000 mg/kg Ingestion
Exposure time	:	28 Days
Species NOAEL Application Route Exposure time		Rat 10 mg/m3 inhalation (dust/mist/fume) 2 yr

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Pirimiphos-methyl (ISO):

Ingestion	:	Symptoms: Nausea, Vomiting, Dizziness, confusion, Head- ache, Weakness, stomach discomfort, Blurred vision, muscle twitching
lambda-cyhalothrin (ISO):		
Inhalation	:	Symptoms: Cough, Local irritation, sneezing
Skin contact	:	Symptoms: Skin irritation, tingling, superficial burning sensa- tion, Local irritation
Eve contact		Remarks: Can be absorbed through skin. Symptoms: Eye irritation
Eye contact Ingestion	:	Symptoms: Gastrointestinal disturbance

Section 12: Ecological information

Toxicity

Components:

Pirimiphos-methyl (ISO):	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.2 mg/l
		Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00021 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l

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			Exposure time: 72 Method: OECD T	
M-Fac icity)	ctor (Acute aquatic tox-	:	1,000	
	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 38 Method: OECD Te	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD T	
M-Fac toxicit	ctor (Chronic aquatic y)	:	100	
lambo	da-cyhalothrin (ISO):			
Toxici	ty to fish	:	Exposure time: 96 Method: OECD T	
			Exposure time: 96 Method: OECD T	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T	
M-Fac icity)	ctor (Acute aquatic tox-	:	10,000	
	ty to fish (Chronic tox-	:	mg/l Exposure time: 32 Method: OECD T	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia magna (Water flea)): 0.0035 µg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials	
M-Fac toxicit	ctor (Chronic aquatic y)	:	10,000	
·	um dioxide:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l ວິ h

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			Method: OECD	Test Guideline 203	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h	
Toxicity to algae/aquatic plants		:	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg Exposure time: 72 h		
Toxicity to microorganisms		:	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Persi	istence and degradabili	ity			
Com	ponents:				
	iphos-methyl (ISO): lity in water	:	Hydrolysis: 50 °	%(117 d)	
Bioa	ccumulative potential				
Com	ponents:				
Pirim	iphos-methyl (ISO):				
	ion coefficient: n- ol/water	- : log Pow: 4.2			
	da-cyhalothrin (ISO):		_		
Bioac	ccumulation	:		n factor (BCF): 2,240 Test Guideline 305	
	Partition coefficient: n- : octanol/water		log Pow: 7.0 (20 °C)		
Mobi	lity in soil				
Com	ponents:				
Distri	da-cyhalothrin (ISO): bution among environ- al compartments	:	log Koc: 5.5		
	r adverse effects ata available				

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 han-



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dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

International Regulations	
UNRTDG UN number UN proper shipping name II Transport hazard class(es) Packing group Labels Environmental hazards	 UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (lambda-cyhalothrin (ISO), Pirimiphos-methyl (ISO)) 6.1 III 6.1 yes
IATA-DGR UN/ID No. UN proper shipping name II Transport hazard class(es) Packing group Labels Packing instruction (cargo aircraft)	 UN 2811 Toxic solid, organic, n.o.s. (lambda-cyhalothrin (ISO), Pirimiphos-methyl (ISO)) 6.1 III Toxic 677
Packing instruction (passen- ger aircraft) IMDG-Code UN number Proper shipping name Transport hazard class(es) Packing group Labels EmS Code Marine pollutant	 : 670 : UN 2811 : TOXIC SOLID, ORGANIC, N.O.S. (lambda-cyhalothrin (ISO), Pirimiphos-methyl (ISO)) : 6.1 : III : 6.1 : F-A, S-A : yes

Transport in bulk according to IMO instruments

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.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question



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Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and : Not applicable

Linvironmental Frotection and Management Act and	•	Not applicable
Environmental Protection and Management (Hazard-		
ous Substances) Regulations		

Fire Safety (Petroleum and Flammable Materials)	:	Not applicable
Regulations		

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

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

Section 16: Other information

Revision Date	:	06.07.2024
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, 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.

Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	
ACGIH SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.
ACGIH / TWA SG OEL / PEL (long term)	:	8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term

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 con-



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centration; 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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