

according to the OSHA Hazard Communication Standard

Pirimiphos-Methyl / Lambda-Cyhalothrin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
6.0	07/06/2024	1204432-00021	Date of first issue: 01/09/2017

SECTION 1. IDENTIFICATION

Product name :		Pirimiphos-Methyl / Lambda-Cyhalothrin Formulation		
Manufacturer or supplier's o	deta	ails		
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065		
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com		
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 OSHA Hazard Communication Standard (29 CFR 1910.1200)			
Acute toxicity (Oral)	:	Category 4	
Acute toxicity (Inhalation)	:	Category 3	
Skin irritation	:	Category 2	
Eye irritation	:	Category 2B	
Carcinogenicity (Inhalation)	:	Category 2	
Specific target organ toxicity - single exposure	:	Category 1 (Central nervous system, Nervous system)	
GHS label elements			
Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	H302 Harmful if swallowed. H315 + H320 Causes skin and eye irritation. H331 Toxic if inhaled. H351 Suspected of causing cancer if inhaled. H370 Causes damage to organs (Central nervous system, Nervous system).	
Precautionary Statements	:	Prevention:	

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		P202 Do not ha and understood P260 Do not br P264 Wash ski P270 Do not ea P271 Use only	eathe dust, fume, gas, mist, vapors or spray. In thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. Itective gloves, protective clothing, eye protectior
		Response:	
		unwell. Rinse n P302 + P352 IF P304 + P340 + and keep comf P305 + P351 + for several min to do. Continue P307 + P311 IF P332 + P313 If P337 + P313 If	 ON SKIN: Wash with plenty of soap and water. P311 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor. P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and eas
		Storage:	
		P405 Store loc	ked up.
		Disposal: P501 Dispose o disposal plant.	of contents and container to an approved waste
Othe	r hazards		
	known.		
SECTION	3. COMPOSITION/	NFORMATION ON ING	REDIENTS
Subst	tance / Mixture	: Mixture	
_	nononto		

9002-86-2	>= 70 - < 90
29232-93-7	>= 10 - < 20
91465-08-6	>= 5 - < 10
3463-67-7	>= 0.1 - < 1
2)	9232-93-7 1465-08-6

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

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If inhaled		lf not bre If breath	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		for at lea and show Get med Wash cle	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
In case of eye contact		for at lea If easy to	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.		
If swallowed		: If swallo so by me Get mec Rinse m	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.		
	mportant symptoms ffects, both acute and ed	: Harmful Causes Toxic if i Suspect	if swallowed. skin and eye irritation.		
	ction of first-aiders to physician	: First Aid and use when the	I responders should pay attention to self-protection, the recommended personal protective equipment e potential for exposure exists (see section 8). mptomatically and supportively.		

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) Chlorine compounds Fluorine compounds
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.





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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. 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	:	Surround spill with absorbents and place a damp covering over the area to minimize entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. 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 ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapors 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 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. 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: Strong oxidizing agents



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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
Polyvinyl chloride	9002-86-2	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m ³	ACGIH
Pirimiphos-methyl (ISO)	29232-93-7	TWA	60 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	600 µg/100 cm ²	Internal
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 µg/m3 (OEB 4)	Internal
	Further informa	ation: Skin		
		Wipe limit	50 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m ³	OSHA Z-1

Engineering measures	:	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 containment devices).
		Minimize open handling.

Personal protective equipment

Respiratory protection Hand protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Material	:	Chemical-resistant gloves

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Remarks Eye protection		 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condmists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there potential for direct contact to the face with dusts, mist aerosols. 					
Skin a	and body protection	Additional body task being perf disposable suit	or laboratory coat. y garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, s) to avoid exposed skin surfaces. e degowning techniques to remove potentially clothing.				
Hygie	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.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available

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	flamma	ability limit			
	Vapor _l	oressure	:	No data available	9
	Relativ	e vapor density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) ter solubility	:	insoluble	
	Partitio octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	llar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	No data available	e

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

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Harr	te toxicity nful if swallowed. c if inhaled.			
	<u>duct:</u> te oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 654.55 mg/kg on method
Acut	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Acut	e dermal toxicity	:	Acute toxicity esti Method: Calculati	
Con	<u>iponents:</u>			
	niphos-methyl (ISO): te oral toxicity		LD50 (Rat): 1,180	
Acu		:	LD50 (Rat): 1,100	
			LD50 (Mouse): >	
			LD50 (Dog): > 1,5	
Acut	e inhalation toxicity	:	LC50 (Rat): > 5.0 Exposure time: 4	
Acut	e dermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
			LD50 (Rat): > 4,5	92 mg/kg
laml	bda-cyhalothrin (ISO):			
Acut	e oral toxicity	:	LD50 (Rat): 56 - 7	79 mg/kg
			LD50 (Mouse): 20) mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): 0.06 Exposure time: 4 Test atmosphere:	h
Acut	e dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg
	te toxicity (other routes of inistration)	:	LD50 (Rat): 250 - Application Route	
	nium dioxide: te oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg

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Acute	inhalation toxicity	:	LC50 (Rat): > 6.8 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h
	corrosion/irritation es skin irritation.			
<u>Comp</u>	oonents:			
Pirim Speci Resul		:	Rabbit irritating	
lambo Speci Resul		:	Rabbit No skin irritation	
Titani Speci Resul		:	Rabbit No skin irritation	
Cause	us eye damage/eye irri es eye irritation. ponents:	itati	on	
Pirim Speci Resul		:	Rabbit Mild eye irritation	
lambo Speci Resul		:	Rabbit Mild eye irritation	
Titani Speci Resul		:	Rabbit No eye irritation	
Respi	iratory or skin sensitiz	atic	n	
Skin	sensitization assified based on availa			
	iratory sensitization	blo	information	

Not classified based on available information.

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<u>Compon</u>	ents:						
Pirimiphos-methyl (ISO):Test TypeRoutes of exposureSpeciesResult		: : : : : : : : : : : : : : : : : : : :	 Maximization Test Dermal Guinea pig Not a skin sensitizer. 				
lambda-	cyhalothrin (ISO):						
Test Type Routes o Species Result	e f exposure	:	Magnusson-Kligm Dermal Guinea pig Not a skin sensitiz				
	n dioxide:						
Test Typ Routes o Species Result	e f exposure	:	Local lymph node Skin contact Mouse negative	assay (LLNA)			
	II mutagenicity	ble	information.				
<u>Compon</u>	ents:						
	os-methyl (ISO): icity in vitro	:	Test Type: Bacter Result: equivocal	ial reverse mutation assay (AMES)			
			Test Type: sister of Result: positive	chromatid exchange assay			
Genotoxi	city in vivo	:	Test Type: Micron Species: Mouse Result: negative	ucleus test			
			Test Type: Roden Species: Mouse Result: negative	t dominant lethal test (germ cell) (in vivo)			
lambda-	cyhalothrin (ISO):						
Genotoxi	city in vitro	:	Test Type: Bacter Result: negative	al reverse mutation assay (AMES)			
			Test Type: Chrom Test system: Hum Result: negative	osomal aberration an lymphocytes			
			Test Type: unsche Test system: rat h	eduled DNA synthesis assay epatocytes			

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I				Result: negative	
					o mammalian cell gene mutation test se lymphoma cells
	Genoto	oxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow
	Titaniu	ım dioxide:			
		oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
	Genoto	oxicity in vivo	:	Test Type: In vivo Species: Mouse Result: negative	micronucleus test
	Carcin	ogenicity			
		cted of causing cancer	if in	haled.	
9	Compo	onents:			
I	Pirimip	phos-methyl (ISO):			
/		s ation Route ure time	: : :	Rat Oral 2 Years negative	
I	Specie	S	:	Mouse	
		ation Route	:	Oral	
	Result	ure time	÷	80 weeks negative	
	Carcino ment	ogenicity - Assess-	:	Animal testing did	not show any carcinogenic effects.
I	lambda	a-cyhalothrin (ISO):			
	Specie		:	Mouse	
Í	Exposu	ation Route ure time	÷	oral (feed) 2 Years	
	Result Remarl	ko	:	negative	m similar materials
88	Reman	κ5	•	Daseu on uala no	
	Specie:		:	Rat oral (feed)	
	Exposu	ation Route ure time	:	2 Years	
	Result Remarl		:	negative Rased on data fro	m similar materials
I I	rreman	0	·	Dased on data Iro	

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Titani	um dioxide:					
	ation Route ure time d	 Rat inhalation (dustion) 2 Years OECD Test G positive The mechanis mans. 				
Carcinogenicity - Assess- ment		: Limited evider animals.	nce of carcinogenicity in inhalation studies with			
IARC	Group 2B: F Titanium die	Possibly carcinogenic oxide	to humans 13463-67-7			
OSHA		No component of this product present at levels greater than or equal to 0.1% on OSHA's list of regulated carcinogens.				
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.				

Reproductive toxicity

Not classified based on available information.

Components:

Pirimiphos-methyl (ISO):	
Effects on fertility	 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 15.4 mg/kg body weight Result: No effects on fertility.
Effects on fetal development	 Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 150 mg/kg body weight Result: No effects on early embryonic development. Remarks: Maternal toxicity observed.
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 48 mg/kg body weight Result: No effects on early embryonic development. Remarks: Maternal toxicity observed.

lambda-cyhalothrin (ISO):

Effects on fertility	:	Test Type: Three-generation study
		Species: Rat
		Application Route: oral (feed)

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				General Toxicity I Symptoms: Reduce Result: No effects	Parent: NOAEL: 2 mg/kg body weight F1: LOAEL: 6.7 mg/kg body weight ced offspring weight gain. s on fertility. on data from similar materials
	Effects	on fetal development	:	Developmental To Result: No effects body weight gain.	
				Developmental To Result: No effects body weight gain.	
		single exposure s damage to organs (Co onents:	entr	al nervous system,	, Nervous system).
lľ		hos-methyl (ISO): Organs ment	:	Central nervous s Causes damage t	
		a-cyhalothrin (ISO): Organs ment	:	Nervous system Causes damage t	o organs.
		repeated exposure ssified based on availa onents:	ble	information.	
		hos-methyl (ISO):	:	Not classified due	e to inconclusive data.
	Repeat <u>Compo</u>	ed dose toxicity onents:			
	Pirimip Species	hos-methyl (ISO): ร	:	Rat	

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Expos	EL cation Route sure time et Organs	: 0.5 mg/kg : 2.5 mg/kg : Oral : 28 d : Central nervous : cholinesterase i	
Expos	EL cation Route sure time et Organs	: Dog : 2 mg/kg : Oral : 13 Weeks : Central nervous : cholinesterase i	
Expos	EL cation Route sure time et Organs toms	: Rat : 25 mg/kg : Oral : 90 d : Central nervous : cholinesterase i : No significant a	
Expos	EL cation Route sure time et Organs	: Dog : 0.5 mg/kg : Oral : 2 y : Central nervous : cholinesterase i	
Expos	EL cation Route sure time et Organs	: Rat : 2.1 mg/kg : Oral : 2 y : Central nervous : cholinesterase i	
	da-cyhalothrin (ISO):	_	
Speci NOAE LOAE Applic Expos Symp	EL EL cation Route sure time	: Dog : 2.5 mg/kg : 12.5 mg/kg : oral (feed) : 90 d : reduced body w	reight gain, reduced food consumption
Expos	EL	: Rat : 10 mg/kg : 50 mg/kg : Dermal : 21 d : Nervous system	1
Speci	es	: Rat	

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Expos			0.08 mg/kg 0.9 mg/kg Inhalation 21 d Nervous system	
Expos	L - ation Route ure time Organs		Dog 0.1 mg/kg 0.5 mg/kg Oral 1 y Nervous system Gastrointestinal d Liver effects	isturbance, Vomiting, Convulsions, ataxia,
Titaniu	um dioxide:			
Specie NOAE		:	Rat 24,000 mg/kg	
Applica	ation Route	:	Ingestion	
Expos	ure time	:	28 Days	
Specie NOAE		:	Rat 10 mg/m³	
	ation Route ure time	:	inhalation (dust/m 2 y	ist/fume)
Not cla	ntion toxicity assified based on availa ience with human exp			
Comp	onents:			
Pirimi	phos-methyl (ISO):			
Ingesti	on	:		ea, Vomiting, Dizziness, confusion, Head- stomach discomfort, Blurred vision, muscle
	a-cyhalothrin (ISO):			
Inhalat Skin co		:	Symptoms: Skin i tion, Local irritatio	n, Local irritation, sneezing rritation, tingling, superficial burning sensa- n absorbed through skin.
Eye co		:	Symptoms: Eye ir	ritation
Ingesti	on	:	Symptoms: Gastr	pintestinal disturbance

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Pirimiphos-methyl (ISO):		
Toxicity to fish	:	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 Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.13 mg/l Exposure time: 35 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.00011 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
lambda-cyhalothrin (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00019 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00021 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00004 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.000062 mg/l Exposure time: 32 d Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
Toxicity to daphnia and other	:	NOEC (Daphnia magna (Water flea)): 0.0035 µg/l

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	uatic invertebrates (Chron- oxicity)		Exposure time: 21 Method: OECD To Remarks: Based o	
Tita	anium dioxide:			
То>	kicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	kicity to daphnia and other latic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
To» pla	kicity to algae/aquatic nts	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): > 10,000 mg/l ? h
То>	kicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Per	sistence and degradabili	ity		
Co	mponents:			
	imiphos-methyl (ISO): bility in water	:	Hydrolysis: 50 %(117 d)
Bio	accumulative potential			
Co	mponents:			
Par	imiphos-methyl (ISO): tition coefficient: n- anol/water	:	log Pow: 4.2	
lan	nbda-cyhalothrin (ISO):			
Bio	accumulation	:	Bioconcentration Method: OECD To	factor (BCF): 2,240 est Guideline 305
	tition coefficient: n- anol/water	:	log Pow: 7.0 (68 °	F / 20 °C)
Мо	bility in soil			
Co	mponents:			
Dis	hbda-cyhalothrin (ISO): tribution among environ- ntal compartments	:	log Koc: 5.5	
	ner adverse effects data available			

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	Dispose of in accordance w Do not dispose of waste int	0
Contaminated packaging	Empty containers should be handling site for recycling o	e taken to an approved waste

SECTION 14. TRANSPORT INFORMATION

International Regulations	
UNRTDG UN number Proper shipping name II Class Packing group Labels Environmentally hazardous	 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. Proper shipping name II Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	 UN 2811 Toxic solid, organic, n.o.s. (lambda-cyhalothrin (ISO), Pirimiphos-methyl (ISO)) 6.1 III Toxic 677 670
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	 UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (lambda-cyhalothrin (ISO), Pirimiphos-methyl (ISO)) 6.1 III 6.1 F-A, S-A yes
Not applicable for product as	to Annex II of MARPOL 73/78 and the IBC Code supplied.
Domestic regulation	
49 CFR UN/ID/NA number Proper shipping name	: UN 2811 : Toxic solids, organic, n.o.s.

(lambda-cyhalothrin (ISO), Pirimiphos-methyl (ISO))

according to the OSHA Hazard Communication Standard



Pirimiphos-Methyl / Lambda-Cyhalothrin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
6.0	07/06/2024	1204432-00021	Date of first issue: 01/09/2017
Label ERG	ng group s	: 6.1 : III : TOXIC : 154 : yes(lambda-cy	/halothrin (ISO), Pirimiphos-methyl (ISO))

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards :	Carcinogenicity Specific target or Skin corrosion or	y route of exposure) gan toxicity (single or irritation age or eye irritation	repeated exposure)
SARA 313 :	5	nponents are subject ARA Title III, Section 3 29232-93-7	

US State Regulations

Pennsylvania Right To Know

Polyvinyl chloride	9002-86-2
Pirimiphos-methyl (ISO)	29232-93-7
lambda-cyhalothrin (ISO)	91465-08-6

California Prop. 65

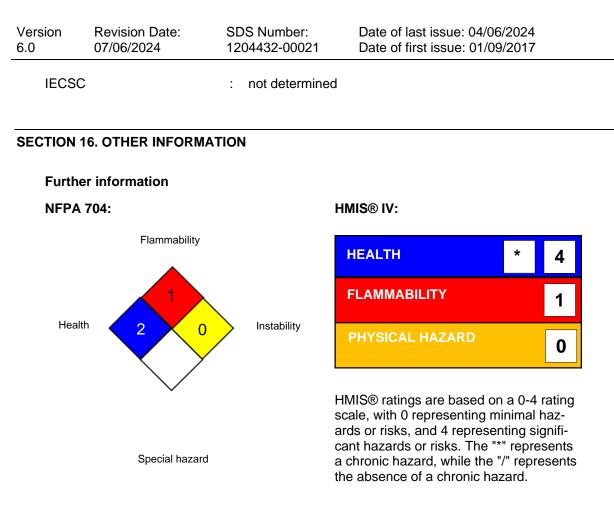
WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

AICS	: not determined
DSL	: not determined



Pirimiphos-Methyl / Lambda-Cyhalothrin Formulation



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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 - Globallv Harmonized Svstem; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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 Pre-



Pirimiphos-Methyl / Lambda-Cyhalothrin Formulation

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vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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 Agency, http://echa.europa.eu/
Revision Date	:	07/06/2024

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

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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