

Version 5.0	Revision Date: 06.07.2024		Number: 4433-00019	Date of last issue: 18.09.2023 Date of first issue: 09.01.2017				
SECTIO	N 1: Identification of	the s	ubstance/mixt	ure and of the company/undertaking				
	uct identifier le name	: 1	Pirimiphos-Methy	l / Lambda-Cyhalothrin Formulation				
1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Sub- stance/Mixture								
Rec on u	ommended restrictions se	: 1	Not applicable					
1.3 Detai	1.3 Details of the supplier of the safety data sheet							
Corr	ipany	2	WSD 20 Spartan Road 1619 Spartan, Se					
Tele	phone	: -	+27119239300					

E-mail address of person	:	EHSDATASTEWARD@msd.com
responsible for the SDS		

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 Acute toxicity, Category 3 Skin irritation, Category 2 Eye irritation, Category 2 Specific target organ toxicity - single exposure, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H302: Harmful if swallowed.

- H331: Toxic if inhaled.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H370: Causes damage to organs.

Tioro. Oddses damage to organs

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Pirimiphos-Methyl / Lambda-Cyhalothrin Formulation

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Hazar	d pictograms			
Signa	l word	: Dange	r	
Hazar	d statements	: H302 H315 H319 H331 H370 H410	Causes se Toxic if inh Causes da	n irritation. rious eye irritation.
Preca	utionary statements	air and CENTE P308 + CENTE P337 + attentio	Avoid relea Wear prote nse: - P340 + P3 keep comfo ER/ doctor. - P311 IF o ER/ doctor. - P313 If e on.	rtable for breathing. Call a POISON exposed or concerned: Call a POISON ye irritation persists: Get medical advice/
		P391	Collect spil	ເຊິ່ງປະ

Hazardous components which must be listed on the label: Pirimiphos-methyl (ISO) lambda-cyhalothrin (ISO)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Pirimiphos-methyl (ISO)	29232-93-7 249-528-5 015-134-00-5	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 1; H370 (Central nervous system)	>= 10 - < 20



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lambd	a-cyhalothrin (ISO)	91465-08-6 415-130-7 607-252-00	Acute Tox. 2; H330	>= 2,5 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
Protection of first-aiders	:	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).
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 contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.



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			Wash clothing be Thoroughly clear	efore reuse. n shoes before reuse.
In cas	se of eye contact	:	for at least 15 m	nove contact lens, if worn.
lf swa	allowed	:	so by medical pe Get medical atte Rinse mouth tho	
4.2 Most i	important symptoms ar	nd e	ffects, both acut	e and delayed
Risks	3	:	Harmful if swallo Causes skin irrita Causes serious Toxic if inhaled. Causes damage	ation. eye irritation.
4.3 Indica Treat	-	meo		d special treatment needed
Treat	ment	·	rreat symptoma	tically and supportively.
SECTION	N 5: Firefighting meas	sur	25	
OLOHON	vo. i nengnung mea.	Jui		
5.1 Exting	guishing media			
Suital	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Unsui media	itable extinguishing a	:	None known.	
5 2 Specia	al hazards arising from	the	substance or m	ixture
-	ific hazards during fire-	:		bustion products may be a hazard to health.
Haza ucts			.	
	rdous combustion prod-	:	Carbon oxides Nitrogen oxides Chlorine compou Fluorine compou	inds
5 3 Advice		:	Nitrogen oxides Chlorine compou	inds
Speci	rdous combustion prod- e for firefighters ial protective equipment efighters	:	Nitrogen oxides Chlorine compou Fluorine compou	inds



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ods		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.				
SECTION	N 6: Accidental relea	se measures				
6.1 Perso	nal precautions, prote	ctive equipment and	l emergency procedures			
Perso	onal precautions	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).			
6.2 Enviro	onmental precautions					
Envir	onmental precautions	Prevent further Retain and disp	o the environment. leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages nined.			
6.3 Metho	ds and material for co	ontainment and clear	ning up			
	ods for cleaning up	: Surround spill w over the area to Add excess liqu Soak up with ine Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu	with absorbents and place a damp covering minimise entry of the material into the air. id to allow the material to enter into solution. ert absorbent material. hing materials from spill with suitable absor- al regulations may apply to releases and dis- terial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding hational requirements.			

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 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 exh ventilation.	aust
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 	



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Hygiene measures		:	 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. If exposure to chemical is likely during typical use, provide explusing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contamnated 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. 		
7.2 Condit	ions for safe storage,	inc	luding any incom	patibilities	
	rements for storage and containers	:	tightly closed. Ke	labelled containers. Store locked up. Keep ep in a cool, well-ventilated place. Store in the particular national regulations.	
Advice	e on common storage	:	Strong oxidizing a	stances and mixtures	
-	c end use(s) ic use(s)	:	No data available		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Polyvinyl chloride	9002-86-2	OEL-RL (respira- ble dust fraction)	2 mg/m3	ZA OEL		
	Further inform	nation: Occupational	Exposure Limits - Restricted	Limits For		
	Hazardous Ch	Hazardous Chemical Agents				
Pirimiphos-methyl (ISO)	29232-93-7	TWA	60 μg/m3 (OEB 3)	Internal		
	Further information: Skin					
		Wipe limit	600 µg/100 cm²	Internal		
lambda-cyhalothrin (ISO)	91465-08-6	TWA	5 µg/m3 (OEB 4)	Internal		
	Further information: Skin					
		Wipe limit	50 μg/100 cm ²	Internal		



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8.2 Exposure controls

Engineering 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 containment devices).

Minimize open handling.

Personal protective equipment

:	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 aerosols.		
:	Chemical-resistant gloves		
:	Consider double gloving. 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.		
:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type (P)		
	:		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	solid No data available characteristic No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard



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		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Densit	y	:	No data available	9
	Partitic octano	ter solubility on coefficient: n-	:	insoluble No data available No data available	
	Decom	position temperature	:	No data available	9
		cosity, kinematic	:	No data available	9
	•	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		nformation			
	Flamm	ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity								
Not classified as a reactivity hazard.								
10.2 Chemical stability								
Stable under normal conditions.								
10.3 Possibility of hazardous	reactio	ns						
Hazardous reactions	:	Can react with strong oxidizing agents.						
10.4 Conditions to avoid								
Conditions to avoid	:	None known.						



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	patible materials			
Materi	als to avoid	:	Oxidizing agents	
10.6 Hazar	dous decomposition p	oroc	lucts	
No ha	zardous decomposition	pro	ducts are known.	
SECTION	11: Toxicological in	for	mation	
11.1 Inforn	nation on toxicologica	l ef	ects	
Inform exposi	ation on likely routes of ure	:	Skin contact Ingestion Eye contact	
Acute	toxicity			
	ul if swallowed. if inhaled.			
<u>Produ</u>	ict:			
Acute	oral toxicity	:	Acute toxicity est Method: Calculat	mate: 654,55 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4	mate: 0,7676 mg/l
			Test atmosphere Method: Calculati	: dust/mist
Acute	dermal toxicity	:	Acute toxicity est Method: Calculat	mate: > 2.000 mg/kg on method
<u>Comp</u>	onents:			
Pirimi	phos-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): > 1.8	500 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5,0 Exposure time: 4	•
Acute	dermal toxicity	:	LD50 (Rabbit): 2.	000 mg/kg
			LD50 (Rat): > 4.5	92 mg/kg
lambd	la-cyhalothrin (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 56 - 7	79 mg/kg
			LD50 (Mouse): 20) mg/kg



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П				
Acute	e inhalation toxicity	:	LC50 (Rat): 0,06 r Exposure time: 4 P Test atmosphere:	ו
Acute	e dermal toxicity	:	LD50 (Rat): 632 -	696 mg/kg
Acute admin	e toxicity (other routes of nistration)	:	LD50 (Rat): 250 - Application Route:	
-	corrosion/irritation es skin irritation.			
Com	ponents:			
	hiphos-methyl (ISO):			
Spec Resu		:	Rabbit irritating	
	da-cyhalothrin (ISO):			
Spec Resu		:	Rabbit No skin irritation	
Caus	ous eye damage/eye irri es serious eye irritation. ponents:	tati	on	
Pirim	hiphos-methyl (ISO):			
Spec Resu		:	Rabbit Mild eye irritation	
lamb	da-cyhalothrin (ISO):			
Spec Resu	ies It	:	Rabbit Mild eye irritation	
Resp	iratory or skin sensitis	atio	n	
	sensitisation lassified based on availa	ble	information.	
-	iratory sensitisation lassified based on availa	ble	information.	
Com	ponents:			
Pirim	hiphos-methyl (ISO):			
Test Expo Spec Resu	sure routes ies	: :	Maximisation Test Dermal Guinea pig Not a skin sensitiz	



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Test	sure routes es	:	Magnusson-Kligr Dermal Guinea pig Not a skin sensit	
Not cl	a cell mutagenicity assified based on avail ponents:	able	information.	
Pirim	iphos-methyl (ISO):			
Geno	toxicity in vitro	:	Test Type: Bacte Result: equivoca	rial reverse mutation assay (AMES) I
			Test Type: sister Result: positive	chromatid exchange assay
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Result: negative	nucleus test
			Test Type: Rode Species: Mouse Result: negative	nt dominant lethal test (germ cell) (in vivo)
lambo	da-cyhalothrin (ISO):			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				nosomal aberration nan lymphocytes
			Test Type: unsch Test system: rat Result: negative	neduled DNA synthesis assay hepatocytes
				o mammalian cell gene mutation test use lymphoma cells
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone r Application Route Result: negative	narrow

Carcinogenicity

Not classified based on available information.



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<u>Com</u>	ponents:		
Speci Applie	cation Route sure time	: Rat : Oral : 2 Years : negative	
Speci Applie	ies cation Route sure time	: Mouse : Oral : 80 weeks : negative	
Carci ment	nogenicity - Assess-	: Animal testing	did not show any carcinogenic effects.
Speci Applie	cation Route sure time It	: Mouse : oral (feed) : 2 Years : negative : Based on data	from similar materials
	cation Route sure time It	: Rat : oral (feed) : 2 Years : negative : Based on data	from similar materials
Not c	oductive toxicity lassified based on avai ponents:	able information.	
Pirim	iphos-methyl (ISO): ts on fertility	Species: Rat Application Ro	L: 15,4 mg/kg body weight
Effect ment	ts on foetal develop-	Result: No effe	
		Result: No effe	it



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II				
	da-cyhalothrin (ISO): ts on fertility	:	General Toxicity Symptoms: Redu Result: No effects	e: oral (feed) - Parent: NOAEL: 2 mg/kg body weight F1: LOAEL: 6,7 mg/kg body weight ced offspring weight gain
Effect	ts on foetal develop-	:	Developmental T Result: No effects body weight gain	
			Developmental T Result: No effects body weight gain	
	Γ - single exposure es damage to organs.			
<u>Com</u>	ponents:			
Targe	liphos-methyl (ISO): et Organs ssment	:	Central nervous s Causes damage	
Targe	da-cyhalothrin (ISO): et Organs ssment	:	Nervous system Causes damage	to organs.
	F - repeated exposure lassified based on availa	able	information.	
<u>Com</u>	ponents:			
Pirim Rema	iiphos-methyl (ISO): arks	:	Not classified due	e to inconclusive data.



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Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Pirim	iphos-methyl (ISO):		
Expos Targe Symp	EL EL cation Route sure time et Organs toms	: Rat : 0,5 mg/kg : 2,5 mg/kg : Oral : 28 d : Central nervou : cholinesterase	
Expos	EL cation Route sure time et Organs	: Dog : 2 mg/kg : Oral : 13 Weeks : Central nervou : cholinesterase	
Expos	EL cation Route sure time et Organs toms	: Rat : 25 mg/kg : Oral : 90 d : Central nervou : cholinesterase : No significant a	
Expos	EL cation Route sure time et Organs	: Dog : 0,5 mg/kg : Oral : 2 yr : Central nervou : cholinesterase	
Expos	L cation Route sure time et Organs	: Rat : 2,1 mg/kg : Oral : 2 yr : Central nervou : cholinesterase	
lambo	da-cyhalothrin (ISO):		
Expos Symp	EL EL cation Route sure time toms	: Dog : 2,5 mg/kg : 12,5 mg/kg : oral (feed) : 90 d : reduced body v	weight gain, reduced food consumption
Speci NOAE LOAE	EL	: Rat : 10 mg/kg : 50 mg/kg	



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Expos	cation Route sure time t Organs	: Dermal : 21 d : Nervous system	
Expos	EL	 Rat 0,08 mg/kg 0,9 mg/kg Inhalation 21 d Nervous system 	
Expos	EL EL cation Route sure time t Organs	 Dog 0,1 mg/kg 0,5 mg/kg Oral 1 yr Nervous system Gastrointestinal disturbance, Vomiting, Convulsions, ataxia, Liver effects 	
•	ation toxicity assified based on ava	able information.	
Expe	rience with human ex	oosure	
Comp	oonents:		
	iphos-methyl (ISO):		
Inges	tion	: Symptoms: Nausea, Vomiting, Dizziness, confusion, Head- ache, Weakness, stomach discomfort, Blurred vision, muscle twitching	е

lambda-cyhalothrin (ISO):

lambda-cyhalothrin (ISO):		
Inhalation	:	Symptoms: Cough, Local irritation, sneezing
Skin contact	:	Symptoms: Skin irritation, tingling, superficial burning sensa-
		tion, Local irritation
		Remarks: Can be absorbed through skin.
Eye contact	:	Symptoms: Eye irritation
Ingestion	:	Symptoms: Gastrointestinal disturbance
Inhalation Skin contact Eye contact Ingestion	:	Symptoms: Skin irritation, tingling, superficial burning sensa tion, Local irritation Remarks: Can be absorbed through skin. Symptoms: Eye irritation

SECTION 12: Ecological information

12.1 Toxicity

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

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Toxic plant	city to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
M-Fa icity)	actor (Acute aquatic tox-	:	1.000	
Toxic icity)	city to fish (Chronic tox-	:	NOEC: 0,13 mg/l Exposure time: 35 Species: Pimepha Method: OECD Te	lles promelas (fathead minnow)
aqua	city to daphnia and other ttic invertebrates (Chron- kicity)	:	NOEC: 0,00011 m Exposure time: 21 Species: Daphnia Method: OECD Te	d magna (Water flea)
M-Fa toxic	actor (Chronic aquatic ity)	:	100	
	oda-cyhalothrin (ISO): city to fish	:	Exposure time: 96 Method: OECD Te Remarks: Based of LC50 (Lepomis m Exposure time: 96 Method: OECD Te	est Guideline 203 on data from similar materials acrochirus (Bluegill sunfish)): 0,00021 mg/l 5 h
	city to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD Te	
M-Fa icity)	actor (Acute aquatic tox-	:	10.000	
Toxic icity)	city to fish (Chronic tox-	:	Method: OECD Te	d les promelas (fathead minnow)
aqua	city to daphnia and other ttic invertebrates (Chron- kicity)	:	Method: OECD Te	d magna (Water flea)
M-Fa	actor (Chronic aquatic	:	10.000	



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toxic	ity) sistence and degradabi	lity		
	iponents:	•		
	niphos-methyl (ISO):			
	ility in water	:	Hydrolysis: 50 %	(117 d)
12.3 Bioa	accumulative potential			
Com	ponents:			
Pirin	niphos-methyl (ISO):			
	tion coefficient: n- nol/water	:	log Pow: 4,2	
	oda-cyhalothrin (ISO):			
Bioa	ccumulation	:		factor (BCF): 2.240 est Guideline 305
	tion coefficient: n- nol/water	:	log Pow: 7,0 (20	°C)
12.4 Mob	ility in soil			
Com	ponents:			
Distr	oda-cyhalothrin (ISO): ibution among environ- tal compartments	:	log Koc: 5,5	
12.5 Res	ults of PBT and vPvB a	sse	ssment	
Proc	luct:			
Asse	essment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Othe	er adverse effects			
Proc	luct:			
Endo tial	ocrine disrupting poten-	:	ered to have end REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations.

Labels



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Conta	aminated packaging	:	are not product s Waste codes sho discussion with t Do not dispose o Empty container dling site for recy	European Waste Catalogue, Waste Codes specific, but application specific. ould be assigned by the user, preferably in he waste disposal authorities. of waste into sewer. s should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.
SECTION	14: Transport infor	mat	ion	
14.1 UN n	umber			
ADN			UN 2811	
ADR			UN 2811	
RID			UN 2811	
IMDG	ì	÷	UN 2811	
ΙΑΤΑ		÷	UN 2811	
14.2 UN p	roper shipping name			
		:		DRGANIC, N.O.S. hrin (ISO), Pirimiphos-methyl (ISO))
ADR		:		DRGANIC, N.O.S. hrin (ISO), Pirimiphos-methyl (ISO))
RID 		:		DRGANIC, N.O.S. hrin (ISO), Pirimiphos-methyl (ISO))
	ì	:		DRGANIC, N.O.S. hrin (ISO), Pirimiphos-methyl (ISO))
іата II		:	Toxic solid, orga (lambda-cyhalotl	nic, n.o.s. hrin (ISO), Pirimiphos-methyl (ISO))
14.3 Trans	sport hazard class(es)			
			Class	Subsidiary risks
ADN		:	6.1	
ADR		:	6.1	
RID		:	6.1	
IMDG	;	:	6.1	
ΙΑΤΑ		:	6.1	
14.4 Pack	ing group			
Class	ng group ification Code rd Identification Number	:	III T2 60	

: 6.1



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ADR				
	ing group	:	III	
	sification Code	:	T2	
Haza Label	rd Identification Number	•	60 6.1	
	el restriction code	:	(E)	
RID				
	ing group	:		
	sification Code	:	T2	
Haza Label	rd Identification Number	•	60 6.1	
		•	0.1	
IMDO			ш	
Labe	ing group	:	6.1	
	Code	÷	F-A, S-A	
ΙΔΤΔ	(Cargo)			
	ing instruction (cargo	:	677	
	ing instruction (LQ)	:	Y645	
	ing group	:	III	
Labe	S	:	Toxic	
ΙΑΤΑ	(Passenger)			
	ing instruction (passen-	:	670	
	ircraft)		VGAE	
	ing instruction (LQ)	:	Y645 III	
Labe		÷	Toxic	
	ronmental hazards			
ADN				
	onmentally hazardous	:	ves	
		•	,	
ADR Envir	onmentally hazardous		ves	
	oninentally nazaruous	•	yes	
RID Envir	onmentally hazardous		Vec	
	-	•	yes	
IMDO				
Marin	e pollutant	:	yes	

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

The components of this product are reported in the following inve	ntories:
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AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Full text of H-Statements

H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H370	:	Causes damage to organs.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
STOT SE	:	Specific target organ toxicity - single exposure
ZA OEL	:	South Africa. The Regulations for Hazardous Chemical
		Agents, Occupational Exposure Limits
ZA OEL / OEL-RL	:	Occupational Exposure Limit Restricted limit - 8- hour expo-
		sure or equivalent (12 hour shifts)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -



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European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the mixture:		Classification procedure:
Acute Tox. 4	H302	Calculation method
Acute Tox. 3	H331	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 1	H370	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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.



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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.

ZA / EN