

9.1 06.04.2024 935020-00016 Date of first issue: 12.10.2016	Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
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Section 1: Identification

Product name	:	Ethion / Chlorpyrifos / Alpha-Cypermethrin Formulation			
Manufacturer or supplier's de Company	eta :	ils MSD			
Address	:	33 Whakatiki Street - Private Ba Upper Hutt - New Zealand	g 908		
Telephone	:	0800 800 543			
Emergency telephone number	:	0800 764 766 (0800 POISON) CHEMCALL)	0800 243 622 (0800		
E-mail address	:	EHSDATASTEWARD@msd.com	m		
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

Section 2: Hazard identification

GHS Classification Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 2
Acute toxicity (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 3
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Germ cell mutagenicity	:	Category 1
Carcinogenicity	:	Category 1
Reproductive toxicity	:	Category 1
Specific target organ toxicity - single exposure	:	Category 1 (Central nervous system)



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•	ific target organ toxicity - e exposure	:	Category 2 (N	lervous system)
	ific target organ toxicity - e exposure	:	Category 3	
	ific target organ toxicity - ated exposure	:	Category 1 (C	Central nervous system)
	ific target organ toxicity - ated exposure	:	Category 2	
Aspir	ation hazard	:	Category 1	
	rdous to the aquatic onment - acute hazard	:	Category 1	
	rdous to the aquatic onment - chronic hazard	:	Category 1	
GHS	label elements			
Haza	rd pictograms	:		
Signa	al word	:	Danger	
Haza	rd statements	:	H300 Fatal if H304 May be H311 Toxic in H315 Causes H318 Causes H332 Harmfu H336 May ca H340 May ca H350 May ca H350 May ca H370 Causes H371 May ca H372 Causes through prolo H373 May ca peated expos	fatal if swallowed and enters airways. contact with skin. skin irritation. serious eye damage. l if inhaled. use drowsiness or dizziness. use genetic defects. use cancer. lamage the unborn child. damage to organs (Central nervous system). damage to organs (Nervous system). damage to organs (Central nervous system) damage to organs (Central nervous system) damage to organs (Central nervous system) use damage to organs through prolonged or re-
Preca	autionary statements	:	Prevention:	

P201 Obtain special instructions before use.



ersion .1	Revision Date: 06.04.2024	SDS Number: 935020-00016	Date of last issue: 30.09.2023 Date of first issue: 12.10.2016
		and other igni P233 Keep co P241 Use exp ment. P242 Use nor P243 Take ac P260 Do not b P264 Wash sl P270 Do not e P271 Use only P273 Avoid re	vay from heat, hot surfaces, sparks, open flames tion sources. No smoking. ontainer tightly closed. olosion-proof electrical/ ventilating/ lighting equip- n-sparking tools. tion to prevent static discharges. oreathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. elease to the environment. otective gloves/ protective clothing/ eye protec- ection.
		POISON CEN P302 + P352 Call a POISO P303 + P361 Iy all contamin P304 + P340 and keep com doctor if you for P305 + P351 water for seve and easy to do CENTER/ doc P308 + P311 CENTER/ doc P331 Do NOT	+ P338 + P310 IF IN EYES: Rinse cautiously with eral minutes. Remove contact lenses, if present to. Continue rinsing. Immediately call a POISON stor. IF exposed or concerned: Call a POISON stor. induce vomiting. If skin irritation occurs: Get medical advice/ atter
		Storage: P403 + P235 P405 Store lo	Store in a well-ventilated place. Keep cool. cked up.
		Disposal: P501 Dispose	of contents/ container to an approved waste

Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture

Components



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Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 50 -< 70
Ethion	563-12-2	>= 10 -< 20
Chlorpyrifos	2921-88-2	>= 2.5 -< 10
2-Methyl-1-propanol	78-83-1	>= 3 -< 10
(S)-α-Cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2- dichlorovinyl)-2,2-	67375-30-8	>= 2.5 -< 10
dimethylcyclopropanecarboxylate		
Hydrocarbons, C10, aromatics, <1% naphtha- lene	64742-94-5	>= 1 -< 2.5
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 1 -< 2.5

Section 4: First-aid measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately.
If inhaled	 When symptoms persist or in all cases of doubt seek medical advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with plenty of water 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	 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 immediately.
If swallowed	 If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	 Fatal if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Harmful if inhaled. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.



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	tection of first-aiders es to physician	:	and use the recor when the potentia	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8). cally and supportively.
Section	5: Fire-fighting measure	s		
Suit	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Uns mec	uitable extinguishing lia	:	High volume wate	er jet
Spe figh	cific hazards during fire- ting	:	fire. Flash back possit Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.
Haz ucts	ardous combustion prod-	:	Carbon oxides Sulphur oxides Oxides of phosph Chlorine compou Nitrogen oxides (l	nds
Spe ods	cific extinguishing meth-	:	cumstances and t Use water spray t Remove undama so.	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
for f	cial protective equipment irefighters cchem Code	:		e, wear self-contained breathing apparatus. tective equipment.

Section 6: Accidental release measures

Personal precautions, protec- tive equipment and emer- gency procedures	:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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.



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	ods and materials for ainment and cleaning up	:	Soak up with ine Suppress (knock spray jet. For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ols should be used. rt absorbent material. a down) gases/vapours/mists with a water provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. 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- lations are applicable. 15 of this SDS provide information regarding ational requirements.
ection 7	: Handling and storage	•		
Tech	nical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
Local	I/Total ventilation	:	If sufficient ventil ventil ventilation.	ation is unavailable, use with local exhaust roof electrical, ventilating and lighting equip-
Advic	e on safe handling	:	Do not get on sk Do not breathe n Do not swallow. Do not get in eye Wash skin thorou Handle in accord practice, based of sessment Non-sparking too Keep container t Keep away from other ignition sou Take precautiona Do not eat, drink	nist or vapours. es. ughly after handling. lance with good industrial hygiene and safety on the results of the workplace exposure as- ols should be used.
Hygie	ene measures	:	If exposure to ch flushing systems place. When using do r	emical is likely during typical use, provide ey and safety showers close to the working not eat, drink or smoke.
Cond	litions for safe storage	:	Keep in properly Store locked up. Keep tightly clos Keep in a cool, w	ted clothing before re-use. labelled containers. ed. vell-ventilated place. nce with the particular national regulations.



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Mate	rials to avoid	: Do not store w Self-reactive s Organic peroxi Oxidizing ager Flammable ga Pyrophoric liqu Pyrophoric sol	nts ses uids ids ubstances and mixtures

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light aromatic	64742-95-6	WES-TWA	300 ppm 890 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,480 mg/m3	NZ OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
Ethion	563-12-2	TWA	4 µg/m3 (OEB 4)	Internal
	Further inform	ation: Skin	- · · ·	
		Wipe limit	40 µg/100 cm2	Internal
		TWA (Inhal-	0.05 mg/m3	ACGIH
		able fraction		
		and vapor)		
Chlorpyrifos	2921-88-2	WES-TWA	0.2 mg/m3	NZ OEL
	Further inform monitoring, Sk		can also be estimate	d by biological
		TWA (Inhal- able fraction and vapor)	0.1 mg/m3	ACGIH
2-Methyl-1-propanol	78-83-1	WES-TWA	50 ppm 152 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	WES-TWA (Mist)	5 mg/m3	NZ OEL
		WES-STEL (Mist)	10 mg/m3	NZ OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
2,6-Di-tert-butyl-p-cresol	128-37-0	WES-TWA	10 mg/m3	NZ OEL

Components with workplace control parameters



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Further information: Skin sensi	itiser	
TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling	Permissible concentra-	Basis
				time	tion	
Chlorpyrifos	2921-88-2	Cholines- terase activ- ity	Blood		< 60 % of baseline	NZ BEI
		Cholines- terase activ- ity	Blood		< 80 % of baseline	NZ BEI
		Cholines- terase activ- ity	Blood		> 75 % of baseline	NZ BEI
		Acetylcho- linesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcho- linesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

Engineering measures :	Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Percenal protective equipment	

Personal protective equipment

Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.
Eye protection	:	Wear the following personal protective equipment:



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Skin	and body protection	If splashes are Face-shield : Select appropri resistance data potential. Wear the follow If assessment atmospheres of protective cloth Skin contact m	stant goggles must be worn. e likely to occur, wear: riate protective clothing based on chemical a and an assessment of the local exposure wing personal protective equipment: demonstrates that there is a risk of explosive or flash fires, use flame retardant antistatic hing. hust be avoided by using impervious protective is, aprons, boots, etc).

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	strong
Odour 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	:	43 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	0.96 - 1.02



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De	ensity	:	No data available	9
So	lubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n- tanol/water	:	No data available	9
	to-ignition temperature	:	No data available	9
De	composition temperature	:	No data available	9
Vis	scosity Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мс	blecular weight	:	No data available	9
	rticle characteristics rticle size	÷	No data available	9

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Stable under normal conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
	,

Acute toxicity

Fatal if swallowed. Toxic in contact with skin. Harmful if inhaled.

Product:



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Acute	e oral toxicity	:	Acute toxicity e Method: Calcul	estimate: 42.45 mg/kg lation method	
Acute	Acute inhalation toxicity		Acute toxicity estimate: 2.24 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Acute	Acute dermal toxicity		Acute toxicity estimate: 233.61 mg/kg Method: Calculation method		
<u>Com</u>	ponents:				
Solv	ent naphtha (petroleu	um), li	ght aromatic:		
Acute	e oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphe	24 h	
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg	
Ethic	on:				
	e oral toxicity	:	LD50 (Rat): 13	mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): 0.4 Exposure time: Test atmosphe	24 h	
Acute	e dermal toxicity	:	LD50 (Rat): 62	mg/kg	
Chio	rpyrifos:				
	e oral toxicity	:	LD50 (Rat, fem	nale): 68 mg/kg	
Acute	e inhalation toxicity	:	Exposure time: Test atmosphe Method: Exper	re: dust/mist	
Acute	e dermal toxicity	:	LD50 (Rat, fem	nales): 1,250 mg/kg	
			Method: Exper	estimate: 50.001 mg/kg t judgement ed on national or regional regulation.	

2-Methyl-1-propanol:



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Acute	oral toxicity		emale): 3,350 mg/kg CD Test Guideline 401			
Acute inhalation toxicity		Exposure tin	: LC50 (Rat): > 18.18 mg/l Exposure time: 6 h Test atmosphere: vapour			
Acute dermal toxicity			it, female): 2,460 mg/kg CD Test Guideline 402			
	Cyano-3-phenoxybe hylcyclopropaneca		2-dichlorovinyl)-2,2-			
Acute	oral toxicity	Method: Exp	y estimate: 5.001 mg/kg pert judgement ased on national or regional regulation.			
Acute inhalation toxicity		Exposure tin	LC50 (Rat): > 1.16 - 1.21 mg/l Exposure time: 4 h Test atmosphere: dust/mist			
Acute	dermal toxicity	: LD50 (Rat):	> 2,000 mg/kg			
Hydro	ocarbons, C10, aron	atics, <1% naphth	alene:			
Acute	oral toxicity		> 5,000 mg/kg CD Test Guideline 420 ased on data from similar materials			
Acute	inhalation toxicity	Method: OE				
Acute dermal toxicity		Method: OE Assessment toxicity	it): > 2,000 mg/kg CD Test Guideline 402 : The substance or mixture has no acute derma ased on data from similar materials			
2,6-Di	i-tert-butyl-p-cresol:					
Acute	oral toxicity	: LD50 (Rat): Method: OE	> 6,000 mg/kg CD Test Guideline 401			
Acute dermal toxicity		Method: OE	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity			



skin dryness or cracking.

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Skin c	orrosion/irritation		
	s skin irritation.		
<u>Comp</u>	onents:		

Components:		
Solvent naphtha (petroleum),	lię	ght aromatic:
Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
Ethion:		
Species	:	Rabbit
Result	:	Mild skin irritation
Chlorpyrifos:		
Species	:	Rabbit
Method		OECD Test Guideline 404
Result	:	No skin irritation
2-Methyl-1-propanol:		
	:	Rabbit
Method		OECD Test Guideline 404
Result	:	Skin irritation
(S)-α-Cyano-3-phenoxybenzy dimethylcyclopropanecarbox		1R, 3R)-3-(2,2-dichlorovinyl)-2,2- ate:
Species		Rabbit
•	:	Skin irritation
Hydrocarbons, C10, aromatic	s,	<1% naphthalene:
	:	Repeated exposure may cause skin d
	•	
2,6-Di-tert-butyl-p-cresol:		
Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on data from similar materials
Serious eye damage/eye irrita	atio	on

Causes serious eye damage.

Components:

Solvent naphtha (petroleum), light aromatic:

Species	:	Rabbit
Result	:	No eye irritation



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Ν	lethoo	I	:	OECD Test Guide	eline 405
E	thion	:			
R	Result		:	No eye irritation	
C	hlorp	yrifos:			
-	Result Remarl	ĸs	:		reversing within 21 days I or regional regulation.
2	-Meth	yl-1-propanol:			
	Specie	S	:	Rabbit	
-	Result Aethoc	1	:	Irreversible effect OECD Test Guide	
Ĩ		•	•		
		yano-3-phenoxybe ylcyclopropanecar			hlorovinyl)-2,2-
	Specie	S	:	Rabbit	
R	Result		:	No eye irritation	
н	lydrod	carbons, C10, arom	atics,	<1% naphthalene	9:
	Specie	S	:	Rabbit	
	Result		:	No eye irritation	
R	Remarl	KS	:	Based on data fro	om similar materials
2	,6-Di-	tert-butyl-p-cresol:			
S	specie	S	:	Rabbit	
-	Result		:	No eye irritation	
	/lethoc Remarl		:	OECD Test Guide	eline 405 om similar materials
Ч	teman	\$5	·	based on data inc	om similar materials
R	Respir	atory or skin sensi	tisatio	n	
s	skin se	ensitisation			
-	_	ssified based on ava	ilable	information.	
R	Respir	atory sensitisation			
	-	ssified based on ava	ilable	information.	
<u>C</u>	Compo	onents:			
S	olven	t naphtha (petroleu	ım), lig	ght aromatic:	
	est Ty		:	Buehler Test	
E	xposi	ire routes	:	Skin contact	
	Specie: Result	S	:	Guinea pig	
R	Cesul		•	negative	



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E(L)	-		
Ethio			
	sure routes	: Skin contac	t
Speci Resul		: Guinea pig	
Resul	l	: negative	
	pyrifos:		
Test T		: Buehler Tes	
	sure routes	: Skin contac	t
Speci		: Guinea pig	
Metho			Guideline 406
Resul	t	: negative	
2-Met	hyl-1-propanol:		
Test T		: Buehler Tes	
	sure routes	: Skin contac	t
Speci		: Guinea pig	
Metho			Guideline 406
Resul		: negative	
	irks	 Based on data 	ata from similar materials
Rema		. Buoda on a	
(S)-α-		enzyl (1R, 3R)-3-(2	,2-dichlorovinyl)-2,2-
(S)-α-	Cyano-3-phenoxyb hylcyclopropaneca	enzyl (1R, 3R)-3-(2	,2-dichlorovinyl)-2,2-
(S)-α- dimet Test T Expos	Cyano-3-phenoxyb t hylcyclopropaneca Type sure routes	enzyl (1R, 3R)-3-(2 rboxylate:	, 2-dichlorovinyl)-2,2- on Test
(S)-α- dimet Test 1 Expos Specie	Cyano-3-phenoxyb t hylcyclopropaneca Type sure routes es	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig	,2-dichlorovinyl)-2,2- on Test tt
(S)-α- dimet Test T Expos Specie Metho	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test	, 2-dichlorovinyl)-2,2- on Test
(S)-α- dimet Test 1 Expos Specie	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig	, 2-dichlorovinyl)-2,2- on Test tt
(S)-α- dimet Test T Expos Specie Metho Resul	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative	,2-dichlorovinyl)-2,2- on Test et Guideline 406
(S)-α- dimet Test T Expos Specie Metho Resul	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od t t ocarbons, C10, aron	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative	,2-dichlorovinyl)-2,2- on Test et Guideline 406 nalene:
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od t t ocarbons, C10, aron	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative	,2-dichlorovinyl)-2,2- on Test et Guideline 406 nalene: on Test
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T Expos Specie	Cyano-3-phenoxybe thylcyclopropaneca Type sure routes es od t t ocarbons, C10, aron Type sure routes es	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative natics, <1% naphth : Maximisatio	,2-dichlorovinyl)-2,2- on Test et Guideline 406 nalene: on Test
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T Expos Specie Resul	Cyano-3-phenoxybe thylcyclopropaneca Type sure routes es od t t ocarbons, C10, aron Type sure routes es t	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative matics, <1% naphth : Maximisatio : Skin contac : Guinea pig : negative	,2-dichlorovinyl)-2,2- on Test at Guideline 406 nalene: on Test
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T Expos Specie	Cyano-3-phenoxybe thylcyclopropaneca Type sure routes es od t t ocarbons, C10, aron Type sure routes es t	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative matics, <1% naphth : Maximisatio : Skin contac : Guinea pig : negative	,2-dichlorovinyl)-2,2- on Test et Guideline 406 nalene: on Test
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T Expos Specie Resul Rema	Cyano-3-phenoxybe thylcyclopropaneca Type sure routes es od t t ocarbons, C10, aron Type sure routes es t	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative natics, <1% naphth : Maximisatio : Skin contac : Guinea pig : negative : Based on da	,2-dichlorovinyl)-2,2- on Test at Guideline 406 nalene: on Test
(S)-α- dimet Test T Expos Specia Metho Resul Hydro Test T Expos Specia Resul Rema	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od t carbons, C10, aron Type sure routes es t t irks	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contact : Guinea pig : OECD Test : negative natics, <1% naphth : Maximisatio : Skin contact : Guinea pig : negative : Based on data	,2-dichlorovinyl)-2,2- on Test at Guideline 406 nalene: on Test ata from similar materials
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T Expos Specie Resul Rema 2,6-Di Test T	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od t carbons, C10, aron Type sure routes es t t irks i-tert-butyl-p-cresol	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contact : Guinea pig : OECD Test : negative natics, <1% naphth : Maximisatio : Skin contact : Guinea pig : negative : Based on data	,2-dichlorovinyl)-2,2- on Test et Guideline 406 nalene: on Test et ata from similar materials eat insult patch test (HRIPT)
(S)-α- dimet Test T Expos Specia Metho Resul Hydro Test T Expos Specia Resul Rema 2,6-Di Test T Expos	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od t carbons, C10, aron Type sure routes es t t i-tert-butyl-p-cresol Type sure routes	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisatio : Skin contac : Guinea pig : OECD Test : negative natics, <1% naphth : Maximisatio : Skin contac : Guinea pig : negative : Based on da : : Human repe	,2-dichlorovinyl)-2,2- on Test et Guideline 406 nalene: on Test et ata from similar materials eat insult patch test (HRIPT)
(S)-α- dimet Test T Expos Specie Metho Resul Hydro Test T Expos Specie Resul Rema 2,6-Di Test T	Cyano-3-phenoxybe hylcyclopropaneca Sure routes es od t ocarbons, C10, aron Type sure routes es t t i-tert-butyl-p-cresol Type sure routes es	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisation : Skin contact : Guinea pig : OECD Test : negative matics, <1% naphth : Maximisation : Skin contact : Guinea pig : negative : Based on data : : Human repe : Skin contact	,2-dichlorovinyl)-2,2- on Test et a Guideline 406 nalene: on Test et ata from similar materials
(S)-α- dimet Test T Expos Specia Metho Resul Test T Expos Specia Resul Rema 2,6-D i Test T Expos Specia Resul	Cyano-3-phenoxybe hylcyclopropaneca Sure routes es od t ocarbons, C10, aron Type sure routes es t t i-tert-butyl-p-cresol Type sure routes es	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisation : Skin contact : Guinea pig : OECD Test : negative matics, <1% naphth : Maximisation : Skin contact : Guinea pig : negative : Based on data : : Human repe : Skin contact : Skin contact : Human repe	,2-dichlorovinyl)-2,2- on Test et a Guideline 406 nalene: on Test et ata from similar materials
(S)-α- dimet Test T Expos Specia Metho Resul Test T Expos Specia Resul Rema 2,6-Di Test T Expos Specia Resul Rema	Cyano-3-phenoxybe hylcyclopropaneca Type sure routes es od t ocarbons, C10, aron Type sure routes es t i-tert-butyl-p-cresol Type sure routes es t t t	enzyl (1R, 3R)-3-(2, rboxylate: : Maximisation : Skin contact : Guinea pig : OECD Test : negative matics, <1% naphth : Maximisation : Skin contact : Guinea pig : negative : Based on data : : Human repe : Skin contact : Skin contact : Human repe	,2-dichlorovinyl)-2,2- on Test et a Guideline 406 nalene: on Test et ata from similar materials



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Components:

Solvent naphtha (petroleum), l	ight aromatic:
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Result: positive
Genotoxicity in vivo :	Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive
Germ cell mutagenicity - : Assessment	Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals
Ethion:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
	Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative
	Test Type: in vitro micronucleus test Result: positive
Genotoxicity in vivo :	Test Type: Chromosomal aberration Species: Rat Result: negative
	Test Type: In vivo micronucleus test Species: Mouse Result: positive
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
Chlorpyrifos:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative



ersion .1	Revision Date: 06.04.2024	SDS Number: 935020-00016	Date of last issue: 30.09.2023 Date of first issue: 12.10.2016
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
			NA damage and repair, unscheduled DNA syn- malian cells (in vitro) ve
		Test Type: Ch Result: positiv	nromosome aberration test in vitro ve
Geno	otoxicity in vivo	cytogenetic as Species: Mou Application Ro	se bute: Ingestion D Test Guideline 474
2-Met	thyl-1-propanol:		
Geno	otoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
		Test Type: in Result: negati	vitro micronucleus test ve
Geno	otoxicity in vivo	cytogenetic as Species: Mou Application Ro	se oute: Ingestion D Test Guideline 474
	-Cyano-3-phenoxyb thylcyclopropaneca	enzyl (1R, 3R)-3-(2,2- rboxvlate:	dichlorovinyl)-2,2-
	otoxicity in vitro	: Test Type: Ba	icterial reverse mutation assay (AMES) D Test Guideline 471 ve
			nromosome aberration test in vitro D Test Guideline 473 ve
			vitro mammalian cell gene mutation test D Test Guideline 476 ve



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Geno	otoxicity in vivo	cytogenetic to Species: Mou Application R	oute: Ingestion D Test Guideline 475
		cytogenetic a Species: Mou Application R	use oute: Ingestion CD Test Guideline 474
		mammalian li Species: Rat	nscheduled DNA synthesis (UDS) test with ver cells in vivo oute: Ingestion ive
Hydı	rocarbons, C10, arom	atics, <1% naphtha	lene:
Geno	otoxicity in vitro	malian cells Result: negat	vitro sister chromatid exchange assay in mam- ive sed on data from similar materials
Geno	otoxicity in vivo	cytogenetic te Species: Rat Application R Result: negat	utagenicity (in vivo mammalian bone-marrow est, chromosomal analysis) oute: inhalation (vapour) ive sed on data from similar materials
2.6-0	Di-tert-butyl-p-cresol:		
	otoxicity in vitro		acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
		Test Type: C Result: negat	hromosome aberration test in vitro ive
Geno	otoxicity in vivo	cytogenetic te Species: Rat	utagenicity (in vivo mammalian bone-marrow est, chromosomal analysis) oute: Ingestion ive



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Carcinogenicity

May cause cancer.

Components:

Solvent naphtha (petroleum), light aromatic:

Solvent napritia (petroleum)	, II	gin aromanc.
Species	:	Mouse
Application Route	:	Skin contact
Exposure time	:	2 Years
Result	:	positive
Carcinogenicity - Assess- ment	:	Sufficient evidence of carcinogenicity in animal experiments
Ethion:		
Species		Rat
Application Route	:	Ingestion
Exposure time		18 Months
Result		negative
Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	24 Months
Result	:	negative
Chlorpyrifos:		
Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative
(S)-α-Cyano-3-phenoxybenzy	yl (1R, 3R)-3-(2,2-dichlorovinyl)-2,2-
dimethylcyclopropanecarbo	xyl	ate:
Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative
2,6-Di-tert-butyl-p-cresol:		
Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	22 Months
Result	:	negative

Reproductive toxicity

May damage the unborn child.



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Components:

Solvent naphtha (petroleum), light aromatic:							
Effects on fertility	:	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: inhalation (vapour) Result: negative					
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative					
Ethion:							
Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative					
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative					
Chlorpyrifos:							
Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative					
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive					
Reproductive toxicity - As- sessment	:	Clear evidence of adverse effects on development, based on animal experiments.					
2-Methyl-1-propanol: Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OPPTS 870.3800 Result: negative					
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour)					



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			l: OECD Test Guideline 414 negative
	Cyano-3-phenoxybei hylcyclopropanecart		3-(2,2-dichlorovinyl)-2,2-
	s on fertility	: Test Ty Specie Applica	rpe: Three-generation reproduction toxicity study s: Rat tion Route: Ingestion negative
Effects ment	s on foetal develop-	Specie Applica Methoo	rpe: Embryo-foetal development s: Rat tion Route: Ingestion l: OECD Test Guideline 414 negative
Hydro	ocarbons, C10, aroma	ntics, <1% na	phthalene:
Effects	s on fertility	Specie Applica Result:	rpe: Three-generation reproduction toxicity study s: Rat tion Route: inhalation (vapour) negative ks: Based on data from similar materials
Effects ment	s on foetal develop-	Specie Applica Result:	rpe: Embryo-foetal development s: Rat tion Route: Ingestion negative ks: Based on data from similar materials
2,6-Di	-tert-butyl-p-cresol:		
Effects	s on fertility	Specie Applica	pe: Two-generation reproduction toxicity study s: Rat tion Route: Ingestion negative
Effects ment	s on foetal develop-	Specie Applica	rpe: Embryo-foetal development s: Rat tion Route: Ingestion negative

STOT - single exposure

May cause drowsiness or dizziness. Causes damage to organs (Central nervous system). May cause damage to organs (Nervous system).



rsion	Revision Date: 06.04.2024	SDS Number: 935020-00016	Date of last issue: 30.09.2023 Date of first issue: 12.10.2016
<u>Comp</u>	oonents:		
Solve	ent naphtha (petrole	um), light aromatic:	
Asses	ssment	: May cause dro	wsiness or dizziness.
Ethio	n:		
Asses	ssment	: Causes damag	je to organs.
Chlor	rpyrifos:		
	et Organs	: Nervous syster	
Asses	ssment	: Causes damag	je to organs.
	thyl-1-propanol:		
Asses	ssment		piratory irritation. wsiness or dizziness.
dime	thylcyclopropaneca	•	
dime	thylcyclopropaneca ssment	rboxylate: : May cause res	lichlorovinyl)-2,2- piratory irritation. anal or regional regulation.
dime Asses Rema	thylcyclopropaneca ssment arks	rboxylate: : May cause res : Based on natio	piratory irritation. Inal or regional regulation.
dime Asses Rema	thylcyclopropaneca ssment arks ocarbons, C10, aron	rboxylate: : May cause res : Based on nation : hatics, <1% naphthale	piratory irritation. nal or regional regulation.
dime Asses Rema	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment	rboxylate: : May cause res : Based on natic natics, <1% naphthale : May cause dro	piratory irritation. Inal or regional regulation.
dime Asses Rema Hydro Asses Rema	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment	rboxylate: : May cause res : Based on nation natics, <1% naphthale : May cause dro : Based on data	piratory irritation. onal or regional regulation. ene: wsiness or dizziness.
dimet Asses Rema Hydro Asses Rema STOT Cause	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks - repeated exposur es damage to organs	rboxylate: : May cause res : Based on nation matics, <1% naphthale : May cause dro : Based on data re (Central nervous system)	piratory irritation. onal or regional regulation. ene: wsiness or dizziness. from similar materials
dimet Asses Rema Hydro Asses Rema STOT Cause May o	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks - repeated exposur es damage to organs	rboxylate: : May cause res : Based on nation matics, <1% naphthale : May cause dro : Based on data re (Central nervous system)	piratory irritation. Inal or regional regulation. Inal or regional regulation. Inal or regional regulation. Inal or regional regulation. Inal of the second
dimet Asses Rema Hydro Asses Rema STOT Cause May o	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks - repeated exposur es damage to organs cause damage to organs cause damage to organs	rboxylate: : May cause res : Based on nation matics, <1% naphthale : May cause dro : Based on data re (Central nervous system)	piratory irritation. Inal or regional regulation. Inal or regional regulation. Inal or regional regulation. Inal or regional regulation. Inal of the second
dimen Asses Rema Hydro Asses Rema STOT Cause May o Comp Ethio Targe	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks - repeated exposur es damage to organs cause damage to organs cause damage to organs	rboxylate: : May cause res : Based on nation natics, <1% naphthale : May cause dro : Based on data re (Central nervous system ans through prolonged : Central nervous : Causes damage	piratory irritation. onal or regional regulation. ene: wsiness or dizziness. from similar materials em) through prolonged or repeated exposion or repeated exposure.
dimen Asses Rema Hydro Asses Rema STOT Cause May o Comp Ethio Targe	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks - repeated exposur es damage to organs cause damage to organs cause damage to organs cause damage to organs cause damage to organs	rboxylate: : May cause res : Based on nation natics, <1% naphthale : May cause dro : Based on data re (Central nervous system ans through prolonged : Central nervous	piratory irritation. onal or regional regulation. ene: wsiness or dizziness. from similar materials em) through prolonged or repeated exposion or repeated exposure.
dimen Asses Rema Hydro Asses Rema STOT Cause May o Comp Ethio Targe Asses	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks - repeated exposur es damage to organs cause damage to organs cause damage to organs cause damage to organs cause damage to organs	rboxylate: : May cause res : Based on nation natics, <1% naphthale : May cause dro : Based on data re (Central nervous system ans through prolonged : Central nervous : Causes damage	piratory irritation. onal or regional regulation. ene: wsiness or dizziness. from similar materials em) through prolonged or repeated exposion or repeated exposure.
dimet Asses Rema Hydro Asses Rema STOT Cause May o Comp Ethio Targe Asses	thylcyclopropaneca ssment arks ocarbons, C10, aron ssment arks 7 - repeated exposur es damage to organs cause damage to organs cause damage to organs cause damage to organs scause damage to organs cause damage to organs	rboxylate: : May cause res : Based on nation hatics, <1% naphthale : May cause dro : Based on data re (Central nervous system ans through prolonged : Central nervou : Causes damage exposure.	piratory irritation. onal or regional regulation. ene: wsiness or dizziness. from similar materials em) through prolonged or repeated exposion or repeated exposure.

Exposure routes	:	Ingestion
Target Organs	:	Central nervous system



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Asses	ssment		ce significant health effects in animals at con- 10 to 100 mg/kg bw.
	i-tert-butyl-p-cresol: ssment	: No significant he tions of 100 mg	ealth effects observed in animals at concentra- /kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
Solve	ent naphtha (petroleu	m), light aromatic:	
		: Rat : 500 mg/kg : Ingestion : 28 Days	
Ethio	n:		
		: Dog : 0.05 mg/kg : Ingestion : 90 Days	
Chlor	pyrifos:		
Speci NOAE LOAE Applic	es EL	: Rat : 0.1 mg/kg : 1 mg/kg : Ingestion : 13 Weeks	
		: Rat : > 0.000296 mg/ : inhalation (vapo : 13 Weeks	
		: Rat : > 5 mg/kg : Skin contact : 21 Days	
2-Met	hyl-1-propanol:		
Speci NOAE Applic	es EL cation Route sure time	: Rat : > 1,450 mg/kg : Ingestion : 90 Days : OECD Test Gui	deline 408
Speci	es	: Rat	



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NOAEL	:	>= 7.5 mg/l
Application Route	:	inhalation (vapour)
Exposure time	:	17 Weeks

(S)-α-Cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dichlorovinyl)-2,2dimethylcyclopropanecarboxylate:

Species	:	Dog
NOAEL	:	3.5 mg/kg
LOAEL	:	13.3 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

Hydrocarbons, C10, aromatics, <1% naphthalene:

Application Route	:	Rat 300 mg/kg Ingestion 13 Weeks
Exposure time	:	13 Weeks
Remarks	:	Based on data from similar materials

2,6-Di-tert-butyl-p-cresol:

Species	: Rat	
NOAEL	: 25 mg/kg	
Application Route	: Ingestion	
Exposure time	: 22 Months	5

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Components:

Solvent naphtha (petroleum), light aromatic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

2-Methyl-1-propanol:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Hydrocarbons, C10, aromatics, <1% naphthalene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.



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	_ .									
	Experience with human exposure <u>Components:</u>									
	Ethion									
	Ingesti		:	Symptoms: Blurred vision, Dizziness, Headache						
Sect	Section 12: Ecological information									
	Ecotoxicity									
	Compo	onents:								
	Solver	it naphtha (petroleum), li	ght aromatic:						
	Toxicity	y to fish	:	Exposure time: 96	s promelas (fathead minnow)): 8.2 mg/l 5 h Vater Accommodated Fraction					
		y to daphnia and other	:		agna (Water flea)): 4.5 mg/l					
	aquatio	invertebrates		Exposure time: 48 Test substance: V Method: OECD Te	Vater Accommodated Fraction					
	Toxicit <u>y</u> plants	y to algae/aquatic	:	Exposure time: 96	Vater Accommodated Fraction					
				mg/l Exposure time: 96	Vater Accommodated Fraction					
		y to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 21	Vater Accommodated Fraction					
	Ethion									
	IOXICIT	y to fish	:	Exposure time: 96	hus mykiss (rainbow trout)): 0.18 mg/l 5 h					
		y to daphnia and other invertebrates	:	EC50: 0.056 - 7.7 Exposure time: 48						
		or (Acute aquatic tox-	:	10,000						
	icity) M-Fact toxicity	or (Chronic aquatic)	:	10,000						



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	pyrifos: ity to fish	:	LC50 : > 0.1 - 1 μ Exposure time: 96	
	ity to daphnia and other ic invertebrates	:	EC50: > 0.01 - 0. Exposure time: 48	
Toxic plants	ity to algae/aquatic	:	EC50 (Scenedesi Exposure time: 96	mus subspicatus): 0.48 mg/l S h
M-Fao icity)	ctor (Acute aquatic tox-	:	10,000	
	ity to fish (Chronic tox-	:	NOEC: 0.3 µg/l Exposure time: 35	5 d
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Mysidops Exposure time: 2 ²	is bahia (opossum shrimp)): 0.0046 µg/l I d
ic toxi M-Fao toxicit	ctor (Chronic aquatic	:	10,000	
	t hyl-1-propanol: ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 1,430 mg/l 5 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia p Exposure time: 48	ulex (Water flea)): 1,100 mg/l 3 h
Toxic plants	ity to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 2 ²	nagna (Water flea)): 20 mg/l I d
ic toxi Toxic	ity to microorganisms	:	EC50: > 1,000 mg Exposure time: 16	
	-Cyano-3-phenoxybenz thylcyclopropanecarbo			hlorovinyl)-2,2-
	ity to fish	:		



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		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	1,000	
Т	city) oxicity city)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 34	es promelas (fathead minnow)): 0.03 μg/l ⊧ d
а	quatic	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.03 μg/l d
N	c toxici I-Facto oxicity)	or (Chronic aquatic	:	1,000	
н	lydroc	arbons, C10, aromat	ics,	<1% naphthalene	:
т	oxicity	to fish	:	Exposure time: 96 Test substance: V Method: OECD Te	Vater Accommodated Fraction
		to daphnia and other invertebrates	:	Exposure time: 48 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	oxicity lants	to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
2	,6-Di-t	ert-butyl-p-cresol:			
		to fish	:	Exposure time: 96	(zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1.



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	xicity to daphnia and other uatic invertebrates	:	Exposure time	a magna (Water flea)): 0.48 mg/l : 48 h) Test Guideline 202
	xicity to algae/aquatic nts	:	mg/l Exposure time	okirchneriella subcapitata (green algae)): > 0.24 : 72 h) Test Guideline 201
			mg/I Exposure time	okirchneriella subcapitata (green algae)): 0.24 : 72 h) Test Guideline 201
M- icit	Factor (Acute aquatic tox-	:	1	
	xicity to fish (Chronic tox-	:	Exposure time	s latipes (Japanese medaka)): 0.053 mg/l : 30 d) Test Guideline 210
aq	xicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	NOEC (Daphn Exposure time	ia magna (Water flea)): 0.316 mg/l : 21 d
M-	Factor (Chronic aquatic icity)	:	1	
	xicity to microorganisms	:	EC50: > 10,00 Exposure time Method: OECE	
Pe	rsistence and degradabili	ity		
<u>Co</u>	mponents:			
So	Ivent naphtha (petroleum), li	ght aromatic:	
Bic	odegradability	:	Result: Inherer Biodegradatior Exposure time	
Etł	nion:			
Bic	odegradability	:	Result: not rap	idly degradable
Ch	lorpyrifos:			
Bic	odegradability	:	Biodegradatior Exposure time	
Sta	ability in water	:	Degradation ha	alf life (DT50): > 2 Months



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2-Met	thyl-1-propanol:			
	egradability	:	Biodegradation Exposure time:	
	-Cyano-3-phenoxyb thylcyclopropaneca			ichlorovinyl)-2,2-
Biode	egradability	:	Biodegradation Exposure time:	
Hydro	ocarbons, C10, aror	natics,	<1% naphthale	ne:
Biode	egradability	:	Biodegradation Exposure time:	
2,6-D	i-tert-butyl-p-cresol	:		
Biode	egradability	:	Biodegradation Exposure time:	
Bioad	ccumulative potenti	al		
<u>Com</u>	ponents:			
	n : ion coefficient: n- ol/water	:	log Pow: 5.07	
	rpyrifos: ccumulation		Species: Danio	rerio (zebra fish)
		·	Bioconcentratio	on factor (BCF): 6,918 Test Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 5.21 Method: OECD	Test Guideline 107
2-Met	thyl-1-propanol:			
Partit	ion coefficient: n-	:	log Pow: 1 Method: OECD	Test Guideline 117

(S)-α-Cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dichlorovinyl)-2,2dimethylcyclopropanecarboxylate:



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	Bioacci	umulation	:	Species: Fish Bioconcentration	factor (BCF): 910		
	Partition coefficient: n- octanol/water		:	log Pow: 6.94			
	2,6-Di-	tert-butyl-p-cresol:					
	Bioacc	umulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1,800		
	Partitio octanol	n coefficient: n- l/water	:	log Pow: 5.1			
	Mobilit	y in soil					
	No data	a available					
	Other a	adverse effects					
	No data	a available					

Section 13: Disposal considerations

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- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	UN 1992
Proper shipping name	:	FLAMMABLE LIQUID, TOXIC, N.O.S.
		(Solvent naphtha (petroleum), light aromatic, Ethion)
Class	:	3
Subsidiary risk	:	6.1
Packing group	:	III
Labels	:	3 (6.1)
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 1992
Proper shipping name	:	Flammable liquid, toxic, n.o.s.
		(Solvent naphtha (petroleum), light aromatic, Ethion)
Class	:	3



Ethion / Chlorpyrifos / Alpha-Cypermethrin Formulation

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Packin Labels Packin aircraf	ng instruction (cargo t) ng instruction (passen-	: 6.1 : III : Flammable Liqu : 366 : 355	uids, Toxic
IMDG- UN nu Propei	Code	(Solvent naphth ifos)	IQUID, TOXIC, N.O.S. na (petroleum), light aromatic, Ethion, Chlorpyr-
Packin Labels EmS C		: 3 : 6.1 : III : 3 (6.1) : F-E, S-D : yes	
Not ap	plicable for product as	-	RPOL 73/78 and the IBC Code
Nation	nal Regulations		

NZS 5433

NZ3 3433	
UN number	: UN 1992
Proper shipping name	: FLAMMABLE LIQUID, TOXIC, N.O.S. (Solvent naphtha (petroleum), light aromatic, Ethion)
Class	: 3
Subsidiary risk	: 6.1
Packing group	: III
Labels	: 3 (6.1)
Hazchem Code	: 3W
Marine pollutant	: yes

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/legislation specific for the substance or mixture

HSNO Approval Number

HSR100758 Veterinary Medicines Non dispersive Closed System Application Group Standard

Tolerable Exposure Limits (TEL) Not applicable



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Environmental Exposure Limits (EEL) Not applicable

HSW Controls

Certified handler certificate required.

Tracking hazardous substance is required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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	:	06.04.2024		
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 Agen- cy, http://echa.europa.eu/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH ACGIH BEI NZ BEI NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) New Zealand. Biological Exposure Indices New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants		
ACGIH / TWA NZ OEL / WES-TWA NZ OEL / WES-STEL	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average Workplace Exposure Standard - Short-Term Exposure Limit		

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Or-



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ganisation 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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