

Version 9.0	Revision Date: 28.09.2024	SDS Number: 935023-00019	Date of last issue: 07.06.2024 Date of first issue: 12.10.2016		
SECTION	SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1 Produ	ct identifier				
Trade name		: Ethion / Chlor	pyrifos / Alpha-Cypermethrin Formulation		
<b>1.2 Relevant identified uses of</b> Use of the Sub- stance/Mixture		: Veterinary pro			
Recor on us	mmended restrictions	: Not applicable	9		
1.3 Details Comp	s of the supplier of the pany	: MSD 20 Spartan Ro			

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

: +27119239300

### **1.4 Emergency telephone number**

+1-908-423-6000

Telephone

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 Acute toxicity, Category 3 Acute toxicity, Category 4 Acute toxicity, Category 3 Skin irritation, Category 2 Serious eye damage, Category 1 Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1B Reproductive toxicity, Category 1B Specific target organ toxicity - single exposure, Category 1 Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 1 Aspiration hazard, Category 1

H226: Flammable liquid and vapour.
H301: Toxic if swallowed.
H332: Harmful if inhaled.
H311: Toxic in contact with skin.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H340: May cause genetic defects.
H350: May cause cancer.
H360D: May damage the unborn child.
H370: Causes damage to organs.

H336: May cause drowsiness or dizziness.

H372: Causes damage to organs through prolonged or repeated exposure. H304: May be fatal if swallowed and enters air-



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gory	-term (chronic) aquatio		ways. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
2.2 Label			
Labe	lling (REGULATION (	EC) No 1272/20	8)
	rd pictograms		
Signa	al word	: Danger	• • • •
Haza	rd statements	H301 + H3 H304 Ma H315 Ca H318 Ca H332 Ha H336 Ma H340 Ma H350 Ma H360D Ma H370 Ca H372 Ca peated exp	y be fatal if swallowed and enters airways. uses skin irritation. uses serious eye damage. mful if inhaled. y cause drowsiness or dizziness. y cause genetic defects. y cause cancer. y damage the unborn child. uses damage to organs. uses damage to organs through prolonged or re-
Preca	autionary statements	P273 Av	tain special instructions before use. bid release to the environment. ar protective gloves/ protective clothing/ eye protec-
		tion/ face p	
		with water sent and ea POISON C P308 + P3 CENTER/	51 + P338 + P310 IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if pre- asy to do. Continue rinsing. Immediately call a ENTER/ doctor.
Solve Ethio Chlor	rdous components wh ent naphtha (petroleum n pyrifos thyl-1-propanol		on the label:

### Additional Labelling

Restricted to professional users.



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#### 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.

Vapours may form explosive mixture with air.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6 265-199-0 649-356-00-4	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Muta. 1B; H340 Carc. 1B; H350 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 50 - < 70
Ethion	563-12-2 209-242-3 015-047-00-2	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 2; H310 STOT SE 1; H370 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
		M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	
Chlorpyrifos	2921-88-2 220-864-4 015-084-00-4	Acute Tox. 3; H301 Acute Tox. 4; H312 Repr. 1B; H360D STOT SE 1; H370 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 2,5 - < 10



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II			H410	
			M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	
	thyl-1-propanol	78-83-1 201-148-0 603-108-00-1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336	>= 3 - < 10
3R)-3	Cyano-3-phenoxybenzyl (1 -(2,2-dichlorovinyl)-2,2- hylcyclopropanecarboxylate		Acute Tox. 3; H301 Acute Tox. 4; H332 Skin Irrit. 2; H315 STOT SE 3; H335 STOT RE 2; H373 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity):	>= 2,5 - < 10
	ocarbons, C10, aromatics, < halene	1% 64742-94-5	1.000 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2,5
2,6-D	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5

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 advice immediately.



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			When symptoms advice.	persist or in all cases of doubt seek medical		
Protection of first-aiders		:	and use the reco	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		:		give artificial respiration. ficult, give oxygen.		
In cas	e of skin contact	:	for at least 15 mi and shoes. Get medical atte Wash clothing be			
In cas	se of eye contact	:	for at least 15 mi If easy to do, ren	ct, immediately flush eyes with plenty of water nutes. nove contact lens, if worn. ntion immediately.		
lf swa	llowed	:	If vomiting occur Call a physician Rinse mouth tho	NOT induce vomiting. s have person lean forward. or poison control centre immediately. roughly with water. ning by mouth to an unconscious person.		
4.2 Most i	mportant symptoms	and	effects, both acut	e and delayed		
Risks :		:	May be fatal if sw Causes skin irrita Causes serious of Harmful if inhale May cause drow May cause gene May cause cance May damage the Causes damage	eye damage. d. siness or dizziness. tic defects. er. e unborn child.		

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.



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### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

### 5.2 Special hazards arising from the substance or mixture

5.2 Opecial hazards ansing nom		
Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Sulphur oxides Oxides of phosphorus Chlorine compounds Nitrogen oxides (NOx)
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
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.

### **SECTION 6:** Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Follow	ersonal protective equipment. safe handling advice (see section 7) and personal pro- equipment recommendations (see section 8).
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### 6.2 Environmental precautions

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).
		parriers). Retain and dispose of contaminated wash water.
		Retain and dispose of contaminated wash water.



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		Local authorities cannot be contai	should be advised if significant spillages ned.
6.3 Method	ds and material for co	ontainment and clean	ing up
Metho	ds for 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.

### 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

•••	i locadiono i el care mananing	•	
	Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
	Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
	Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
	Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami-



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		nated clothing	g before re-use.			
7.2 Condit	ions for safe storage,	, including any inc	compatibilities			
•	rements for storage and containers	tightly closed accordance v	: Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.			
Advic	e on common storage	Strong oxidiz Self-reactive Organic pero Flammable s Pyrophoric lic Pyrophoric so Self-heating s Substances a flammable ga Explosives Gases	substances and mixtures xides olids quids blids substances and mixtures and mixtures, which in contact with water, emit			

### 7.3 Specific end use(s)

Specific 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			
Ethion	563-12-2	TWA	4 µg/m3 (OEB 4)	Internal			
	Further inform	nation: Skin					
		Wipe limit	40 µg/100 cm2	Internal			
Chlorpyrifos	2921-88-2	OEL-RL (inhala- ble fraction and vapour)	0,2 mg/m3	ZA OEL			
		Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents					
2-Methyl-1- propanol	78-83-1	OEL-RL	100 ppm	ZA OEL			
		Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents					

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
2-Methyl-1-propanol	Workers	Inhalation	Long-term local ef- fects	310 mg/m3



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		Consumers	Inhalation	Long-term local ef- fects	55 mg/m3	
2,6-D creso	i-tert-butyl-p- I	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3	
		Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day	
		Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3	
		Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day	
		Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day	
	ocarbons, C10, atics, <1% naph- ne	Workers	Inhalation	Long-term systemic effects	151 mg/m3	
		Workers	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day	
		Consumers	Inhalation	Long-term systemic effects	32 mg/m3	
		Consumers	Skin contact	Long-term systemic effects	7,5 mg/kg bw/day	
		Consumers	Ingestion	Long-term systemic effects	7,5 mg/kg bw/day	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
2,6-Di-tert-butyl-p-cresol	Fresh water	0,199 µg/l
	Intermittent use/release	0,02 µg/l
	Marine water	0,02 µg/l
	Sewage treatment plant	0,17 mg/l
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Soil	0,04769 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	8,33 mg/kg food

### 8.2 Exposure controls

#### **Engineering measures**

Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment						
Eye/face protection :	Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield					
Hand protection						
Material :	Chemical-resistant gloves					

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## Ethion / Chlorpyrifos / Alpha-Cypermethrin Formulation

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	Remarks Skin and body protection		<ul> <li>Choose gloves to protect hands against chemicals dependent on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is determined for the product. Change gloves often! For sp applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with t glove manufacturer. Take note that the product is flamma which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.</li> <li>Select appropriate protective clothing based on chemical sistance data and an assessment of the local exposure p tial.</li> <li>Wear the following personal protective equipment: If assessment demonstrates that there is a risk of explose atmospheres or flash fires, use flame retardant antistatic</li> </ul>	
Respiratory protection Filter type		:   :   :	clothing (gloves, a If adequate local e sure assessment ommended guide	be avoided by using impervious protective aprons, boots, etc). exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection. lates and organic vapour type (A-P)

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

information on basic physical	an	u chemical properti
Appearance Colour Odour	:	liquid yellow 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
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



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Relative density		e density	:	0,96 - 1,02	
C	Density	,	:	No data available	e
F	Partitio octanol	er solubility n coefficient: n-	:	No data available No data available No data available	5
C	Decom	position temperature	:	No data available	e
		ty cosity, kinematic ve properties	:	No data available Not explosive	e
	•	ng properties	:	·	r mixture is not classified as oxidizing.
<b>9.2 Other information</b> Flammability (liquids)		:	Not applicable		
Ν	Volecu	lar weight	:	No data available	9
F	Particle	esize	:	No data available	9

### **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b> Not classified as a reactivity hazar	d.
<b>10.2 Chemical stability</b> Stable under normal conditions.	
10.3 Possibility of hazardous reactio	ns
Hazardous reactions :	Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	Heat, flames and sparks.
<b>10.5 Incompatible materials</b> Materials to avoid :	Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.



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### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

iniornation on likely routes of	•	Innalation
exposure		Skin contact
		Ingestion
		Eye contact

### Acute toxicity

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

### Product:

Acute oral toxicity	:	Acute toxicity estimate: 69,28 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 2,57 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
		A suite terrisity estimates 277 FF maller

### **Components:**

### Solvent naphtha (petroleum), light aromatic:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5,61 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg
Ethion:		
Acute oral toxicity	:	LD50 (Rat): 13 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0,450 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat): 62 mg/kg
Chlorpyrifos:		
Acute oral toxicity	:	LD50 (Rat, female): 68 mg/kg
Acute dermal toxicity	:	LD50 (Rat, females): 1.250 mg/kg

### 2-Methyl-1-propanol:



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Acute	e oral toxicity		emale): 3.350 mg/kg CD Test Guideline 401
Acute	inhalation toxicity	: LC50 (Rat): : Exposure tim Test atmospl	ie: 6 h
Acute	e dermal toxicity		t, female): 2.460 mg/kg CD Test Guideline 402
	-Cyano-3-phenoxybe thylcyclopropaneca		P-dichlorovinyl)-2,2-
Acute	e oral toxicity	: LD50 (Rat): Method: EC	57 mg/kg Directive 92/69/EEC B.1 Acute Toxicity (Oral)
Acute	inhalation toxicity	Exposure tim	> 1,16 - 1,21 mg/l ne: 4 h nere: dust/mist
Acute	e dermal toxicity	: LD50 (Rat): :	> 2.000 mg/kg
Hydro	ocarbons, C10, arom	atics, <1% naphtha	alene:
Acute	e oral toxicity		> 5.000 mg/kg CD Test Guideline 420 sed on data from similar materials
Acute	inhalation toxicity	Method: OEC	
Acute	e dermal toxicity	Method: OEC Assessment: toxicity	t): > 2.000 mg/kg CD Test Guideline 402 The substance or mixture has no acute dermal sed on data from similar materials
2,6-D	i-tert-butyl-p-cresol:		
Acute	e oral toxicity	: LD50 (Rat): : Method: OEC	> 6.000 mg/kg CD Test Guideline 401
Acute	e dermal toxicity	: LD50 (Rat): : Method: OE0	> 2.000 mg/kg CD Test Guideline 402

Causes skin irritation.



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<u>Comp</u>	oonents:				
Solve	ent naphtha (petrole	um), light aromatic:			
Speci	• •	: Rabbit			
Metho		: OECD Test Gu	ideline 404		
Resul	t	: Skin irritation			
Ethio	n:				
Speci	es	: Rabbit			
Resul	t	: Mild skin irritation	on		
Chlor	pyrifos:				
Speci	es	: Rabbit			
Metho	bd	: OECD Test Gu			
Resul	t	: No skin irritation	n		
2-Met	hyl-1-propanol:				
Speci	es	: Rabbit			
Metho		: OECD Test Gu	ideline 404		
Resul	t	: Skin irritation			
	Cyano-3-phenoxyb hylcyclopropaneca	enzyl (1R, 3R)-3-(2,2-d rboxylate:	ichlorovinyl)-2,2-		
Speci	es	: Rabbit			
Resul	t	: Skin irritation			
Hydro	ocarbons, C10, aron	natics, <1% naphthale	ne:		
Asses	ssment	: Repeated expo	sure may cause skin dryness or cracking.		
2,6-Di	i-tert-butyl-p-cresol	:			
Speci	es	: Rabbit			
Metho		: OECD Test Gu	ideline 404		
Resul		: No skin irritation			
Rema	ırks	: Based on data	from similar materials		
Serio	us eye damage/eye	irritation			
	es serious eye damag	ge.			
	oonents:				
Solve Speci		um), light aromatic: : Rabbit			
Metho			: OECD Test Guideline 405		
Resul			: No eye irritation		
Ethio	n:				
Resul	t	: No eye irritatior	1		



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Chlor Speci Metho Resu	od	: Rabbit : OECD Test G : No eye irritatio				
<b>2-Me</b> Speci Metho Resu	od		<ul> <li>Rabbit</li> <li>OECD Test Guideline 405</li> <li>Irreversible effects on the eye</li> </ul>			
dime Speci		<b>boxylate:</b> : Rabbit				
Resu		: No eye irritatio				
Hydro Speci Resu Rema	lt	: Rabbit : No eye irritatio				
<b>2,6-D</b> Speci Metho Resu Rema	od It	sol: : Rabbit : OECD Test Guideline 405 : No eye irritation : Based on data from similar materials				
Skin	iratory or skin sensiti sensitisation lassified based on ava					
Resp	iratory sensitisation lassified based on ava					
<u>Com</u>	ponents:					
Solve	ent naphtha (petroleu	ım), light aromatic:				
Test Expos Speci Resu	sure routes ies	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>negative</li> </ul>				
Ethio Expos Speci Resu	sure routes ies	: Skin contact : Guinea pig : negative				

### Chlorpyrifos:

Test Type

: Buehler Test

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Expos Speci Metho Resul	bd	: Skin contact : Guinea pig : OECD Test G : negative	Guinea pig OECD Test Guideline 406			
2-Met	thyl-1-propanol:					
Test T Expos Speci Metho Resul Rema	sure routes les od lt	: negative	: Skin contact : Guinea pig : OECD Test Guideline 406			
	-Cyano-3-phenoxyber thylcyclopropanecart		-dichlorovinyl)-2,2-			
Test	Type sure routes es od	: Maximisation : Skin contact : Guinea pig : OECD Test G : negative				
Hydro	ocarbons, C10, aroma	atics, <1% naphtha	lene:			
Test T Expos Speci Resul Rema	sure routes les lt	<ul> <li>Maximisation</li> <li>Skin contact</li> <li>Guinea pig</li> <li>negative</li> <li>Based on dat</li> </ul>	Test a from similar materials			
2,6-D	i-tert-butyl-p-cresol:					
Test T Expos Speci Resul	sure routes les	: Human repea : Skin contact : Humans : negative	at insult patch test (HRIPT)			
	<b>cell mutagenicity</b> cause genetic defects.					
<u>Comp</u>	oonents:					
	ent naphtha (petroleu					
Geno	toxicity in vitro	Result: negat	vitro mammalian cell gene mutation test			
Geno	toxicity in vivo	gonia Species: Mou	ster chromatid exchange analysis in spermato- ise oute: Intraperitoneal injection			
		16 /	~			



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Germ sessn	cell mutagenicity- As- nent	:	Result: positive Positive result(s) tests in mammals	from in vivo heritable germ cell mutagenicity
II Ethio	n:			
Geno	Genotoxicity in vitro		Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)
			Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
			Test Type: in vitro Result: positive	o micronucleus test
Geno	toxicity in vivo	:	Test Type: Chrom Species: Rat Result: negative	nosomal aberration
			Test Type: In vivo Species: Mouse Result: positive	o micronucleus test
	Germ cell mutagenicity- As- sessment		Weight of evidence does not support classification as a germ cell mutagen.	
Chlor	pyrifos:			
Geno	toxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476
			Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)
			Test Type: Chrom Result: positive	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD T	: Ingestion



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		Result: negat	ive				
 2-Me	thyl-1-propanol:						
	otoxicity in vitro		Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive				
		Test Type: in Result: negat	vitro micronucleus test ive				
Genc	otoxicity in vivo	cytogenetic a Species: Mou Application R Method: OEC	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative				
	-Cyano-3-phenoxybe thylcyclopropanecar		-dichlorovinyl)-2,2-				
	otoxicity in vitro	: Test Type: Ba	acterial reverse mutation assay (AMES) D Test Guideline 471 ive				
			nromosome aberration test in vitro D Test Guideline 473 ive				
			vitro mammalian cell gene mutation test D Test Guideline 476 ive				
Genc	otoxicity in vivo	cytogenetic to Species: Mou Application R	oute: Ingestion D Test Guideline 475				
		cytogenetic a Species: Mou Application R	use oute: Ingestion D Test Guideline 474				
		mammalian li Species: Rat	nscheduled DNA synthesis (UDS) test with ver cells in vivo oute: Ingestion ive				



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Hye	drocarbons, C10, arom	natics,	<1% naphthal	ene:
Gei	notoxicity in vitro	:	malian cells Result: negati	vitro sister chromatid exchange assay in mam- ve sed on data from similar materials
Ge	Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalia cytogenetic test, chromosomal analysis) Species: Rat Application Route: inhalation (vapour) Result: negative Remarks: Based on data from similar mate		oute: inhalation (vapour) ve	
2,6	-Di-tert-butyl-p-cresol:			
	notoxicity 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: Ch Result: negati	rromosome aberration test in vitro ve
Gei	notoxicity in vivo	:	cytogenetic te Species: Rat	utagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) pute: Ingestion ve
 Cai	rcinogenicity			
	y cause cancer.			
·	mponents:			
	vent naphtha (petroleu ecies	um), II	Mouse	
App	blication Route	:	Skin contact	
Exp	oosure time	:	2 Years	
Res	sult	:	positive	
Car me	cinogenicity - Assess- nt	:	Sufficient evid	ence of carcinogenicity in animal experiments
Eth	ion:			
	ecies	:	Rat	
	blication Route	:	Ingestion 18 Months	
	sult	:	negative	
	ecies		Mouse	
Apr	blication Route	÷	Ingestion	



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Expos Resul	sure time t	: 24 Months : negative	
Specie Applic	ation Route sure time	: Rat : Ingestion : 2 Years : negative	
dimet Specie Applic	ation Route sure time		,2-dichlorovinyl)-2,2-
Specie Applic	ation Route sure time	: Rat : Ingestion : 22 Months : negative	
May d <u>Comp</u>	oductive toxicity lamage the unborn chilo ponents: nt naphtha (petroleun		<b>.</b> .
	s on fertility	: Test Type: test Species: Ra	Reproduction/Developmental toxicity screening at Route: inhalation (vapour)
Effect ment	s on foetal develop-	Species: Ra	Route: inhalation (vapour)
Ethio	n-		
	s on fertility	Species: Ra	Route: Ingestion
Effect: ment	s on foetal develop-	Species: Ra	Route: Ingestion

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Chlorpy	vrifos:				
	on fertility	Species: Rat	oute: Ingestion		
Effects o ment	on foetal develop-	Species: Rat Application R	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive		
Reprodu sessmei	uctive toxicity - As- nt		Clear evidence of adverse effects on development, based or animal experiments.		
2-Methy	vl-1-propanol:				
Effects o	on fertility	Species: Rat Application R	wo-generation reproduction toxicity study oute: inhalation (vapour) PTS 870.3800 ive		
Effects on foetal develop- ment		Species: Rat Application R Method: OEC	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 414 Result: negative		
	/ano-3-phenoxybe /lcyclopropanecar		-dichlorovinyl)-2,2-		
Effects	on fertility	Species: Rat	nree-generation reproduction toxicity study oute: Ingestion ive		
Effects of ment	on foetal develop-	Species: Rat Application R Method: OEC	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative		
Hydroca	arbons, C10, arom	atics, <1% naphtha	lene:		
	on fertility	: Test Type: Tl Species: Rat Application R Result: negat	nree-generation reproduction toxicity study oute: inhalation (vapour)		
IÍ	on foetal develop-	: Test Type: E Species: Rat	mbryo-foetal development		



ersion 0	Revision Date: 28.09.2024		S Number: 023-00019	Date of last issue: 07.06.2024 Date of first issue: 12.10.2016
			Remarks: Base	d on data from similar materials
	<b>Pi-tert-butyl-p-cresol:</b> ts on fertility		Test Type: Two Species: Rat Application Rou Result: negative	
Effec ment	ts on foetal develop-		<ul> <li>Test Type: Embryo-foetal development</li> <li>Species: Rat</li> <li>Application Route: Ingestion</li> <li>Result: negative</li> </ul>	
May	<b>Γ - single exposure</b> cause drowsiness or di es damage to organs.	zzines	S.	
<u>Com</u>	ponents:			
Solve	ent naphtha (petroleu	m), lig	ht aromatic:	
Asse	ssment	:	May cause drov	vsiness or dizziness.
Ethic	n.			
	ssment	:	Causes damage	e to organs.
Chlo	rpyrifos:			
Targe	et Organs ssment		Nervous system Causes damage	
2-Me	thyl-1-propanol:			
	ssment		May cause resp dizziness.	iratory irritation., May cause drowsiness or
	-Cyano-3-phenoxybe thylcyclopropanecarl			ichlorovinyl)-2,2-
	ssment	:	May cause resp	iratory irritation. nal or regional regulation.
Hvdr	ocarbons, C10, aroma	atics.	<1% naphthale	ne:
	ssment	:	May cause drov	vsiness or dizziness. from similar materials
et of	r repeated experies			

### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.



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Com	ponents:					
Ethio	on:					
	et Organs ssment		<ul> <li>Central nervous system</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> </ul>			
	-Cyano-3-phenoxybe thylcyclopropanecar		2-dichlorovinyl)-2,2-			
	sure routes	: Ingestion				
	et Organs ssment		ous system oduce significant health effects in animals at con- of >10 to 100 mg/kg bw.			
2,6-D	i-tert-butyl-p-cresol:					
Asse	ssment		nt health effects observed in animals at concentra- mg/kg bw or less.			
Repe	ated dose toxicity					
Com	ponents:					
Solve	ent naphtha (petroleu	um), light aromatic	:			
Spec		: Rat				
LOAE		: 500 mg/kg				
	cation Route sure time	: Ingestion : 28 Days				
Ethio	n:					
Spec		: Dog				
NOA	EL cation Route	: 0,05 mg/kg : Ingestion				
	sure time	: 90 Days				
Chlo	rpyrifos:					
Spec		: Rat				
NOAI LOAE		: 0,1 mg/kg : 1 mg/kg				
	cation Route	: Ingestion				
	sure time	: 13 Weeks				
Spec		: Rat				
NOA	EL cation Route	: > 0,000296 : inhalation (v				
	sure time	: 13 Weeks	apour,			
Spec		: Rat				
NOA		: > 5 mg/kg				
	cation Route sure time	: Skin contact : 21 Days				
		,-				



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### 2-Methyl-1-propanol:

Species	: Rat
NOAEL	: > 1.450 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Species NOAEL Application Route Exposure time Method	: OECD Test Guideline 408
Species	: Rat
NOAEL	: >= 7,5 mg/l
Species NOAEL Application Route Exposure time	: inhalation (vapour)
Exposure time	: 17 Weeks

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

:	Dog
:	3,5 mg/kg
:	13,3 mg/kg
:	Ingestion
:	90 Days
	:

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

: Rat
: 300 mg/kg
: Ingestion
: 13 Weeks
: Based on data from similar materials

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

:	Rat
:	25 mg/kg
:	Ingestion
:	22 Months
	:

### 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.



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### 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.

#### Experience with human exposure

### Components:

Ethion:

Ingestion

: Symptoms: Blurred vision, Dizziness, Headache

### **SECTION 12: Ecological information**

12.1 Toxicity

#### Components:

### Solvent naphtha (petroleum), light aromatic:

	LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other : aquatic invertebrates	EL50 (Daphnia magna (Water flea)): 4,5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic : plants	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
	NOELR (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOELR: 2,6 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211
Ethion: Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,18 mg/l Exposure time: 96 h



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	Toxicity to daphnia and other aquatic invertebrates		:	EC50 : 0,056 - 7,7 μg/l Exposure time: 48 h		
	M-Factor icity)	r (Acute aquatic tox-	:	10.000		
	M-Factor toxicity)	r (Chronic aquatic	:	10.000		
	Chlorpy	rifos:				
	Toxicity f	to fish	:	LC50 : > 0,1 - 1 μ Exposure time: 96		
		to daphnia and other nvertebrates	:	EC50 : > 0,01 - 0, Exposure time: 48		
	Toxicity f plants	to algae/aquatic	:	EC50 (Scenedesn Exposure time: 96	nus subspicatus): 0,48 mg/l 3 h	
	M-Factor icity)	r (Acute aquatic tox-	:	10.000		
	Toxicity f icity)	to fish (Chronic tox-	:	NOEC: 0,3 µg/l Exposure time: 35	5 d	
		to daphnia and other nvertebrates (Chron- /)	:	NOEC: 0,0046 µg Exposure time: 21 Species: Mysidop		
	M-Factor toxicity)	r (Chronic aquatic	:	10.000		
:	2-Methy	I-1-propanol:				
	Toxicity 1	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 1.430 mg/l s h	
		to daphnia and other nvertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): 1.100 mg/l 3 h	
	Toxicity t plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	Toxicity 1	to microorganisms	:	EC50 : > 1.000 m Exposure time: 16		
	Toxicity to daphnia and other		:	NOEC: 20 mg/l		



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	aquatic invertebrates (Chron- ic toxicity)		Exposure time: 21 Species: Daphnia	d magna (Water flea)
	-Cyano-3-phenoxybenz thylcyclopropanecarbo			nlorovinyl)-2,2-
	ity to fish	:		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic S	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
M-Fa icity)	ctor (Acute aquatic tox-	:	1.000	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,03 µg/l Exposure time: 34 Species: Pimepha	d Iles promelas (fathead minnow)
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC: 0,03 µg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
M-Fa		:	1.000	
Hydro	ocarbons, C10, aromat	ics,	<1% naphthalene	:
Toxic	ity to fish	:	Exposure time: 96 Test substance: W Method: OECD Te	Vater Accommodated Fraction
	ity to daphnia and other tic invertebrates	:	Exposure time: 48 Test substance: W Method: OECD Te	Vater Accommodated Fraction
Toxic plants	ity to algae/aquatic s	:	EL50 (Pseudokirc mg/l Exposure time: 72	hneriella subcapitata (green algae)): > 1 - 3 ? h



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			Method: OECD	Water Accommodated Fraction Fest Guideline 201 on data from similar materials
2	2,6-Di-tert-butyl-p-cres	sol:		
	Foxicity to fish		Exposure time: 9	o (zebra fish)): > 0,57 mg/l /6 h e 67/548/EEC, Annex V, C.1.
	Foxicity to daphnia and aquatic invertebrates	other :	Exposure time: 4	nagna (Water flea)): 0,48 mg/l 8 h Fest Guideline 202
	Foxicity to algae/aquation Ants	; :	mg/l Exposure time: 7	irchneriella subcapitata (green algae)): > 0,24 '2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 0,24 2 h Fest Guideline 201
	И-Factor (Acute aquatio city)	tox- :	1	
г	Foxicity to microorganis	ms :	Exposure time: 3	
	Foxicity to fish (Chronic city)	tox- :	Exposure time: 3 Species: Oryzias	
a	Foxicity to daphnia and aquatic invertebrates (C c toxicity)		Exposure time: 2	
	И-Factor (Chronic aqua oxicity)	tic :	1	
12.2 F	Persistence and degra	dability		
<u>c</u>	Components:			
S	Solvent naphtha (petro	oleum), l	ight aromatic:	
E	Biodegradability	:	Result: Inherentl Biodegradation: Exposure time: 2	94 %
Ethion:				
<b>I</b> IE	Biodegradability	:	Result: not rapid	ly degradable

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П				
	rpyrifos:			
	egradability	:	Result: Not readil Biodegradation: Exposure time: 20 Method: OECD T	22 %
Stabi	lity in water	:	Degradation half	life (DT50): > 2 Months
II 2-Me	thyl-1-propanol:			
	egradability	:	Result: Readily b Biodegradation: Exposure time: 24 Method: OECD T	74 %
	-Cyano-3-phenoxyben thylcyclopropanecarb			hlorovinyl)-2,2-
Biode	egradability	:	Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T	0 %
•• Hydr	ocarbons, C10, aroma	itics,	<1% naphthalene	9:
Biode	egradability	:	Result: Not readil Biodegradation: Exposure time: 24 Method: OECD T	49,56 %
2,6-D	i-tert-butyl-p-cresol:			
Biode	egradability	:	Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T	4,5 %
12.3 Bioa	ccumulative potential			
Com	ponents:			
Ethio	on:			
	ion coefficient: n- ol/water	:	log Pow: 5,07	
Chlo	rpyrifos:			
Bioac	cumulation	:		erio (zebra fish) factor (BCF): 6.918 est Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 5,21 Method: OECD T	est Guideline 107



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2-Met	thyl-1-propanol:			
Partit	ion coefficient: n- ol/water	:	log Pow: 1 Method: OECI	) Test Guideline 117
	Cyano-3-phenoxybe			lichlorovinyl)-2,2-
Bioac	cumulation	:	Species: Fish Bioconcentration	on factor (BCF): 910
	ion coefficient: n- ol/water	:	log Pow: 6,94	
2,6-D	i-tert-butyl-p-cresol:			
Bioac	cumulation	:		nus carpio (Carp) on factor (BCF): 330 - 1.800
	ion coefficient: n- ol/water	:	log Pow: 5,1	
	<b>lity in soil</b> ata available			
12.5 Resu	Its of PBT and vPvB	asse	ssment	
Prod	uct:			
Asses	ssment	:	to be either pe	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 Othe	r adverse effects			
Prod	uct:			
Endo tial	crine disrupting poten-	:	ered to have e REACH Article	/mixture does not contain components consid- ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher.

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
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.



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			pose such contain of ignition. They m	, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources hay explode and cause injury and/or death. becified: Dispose of as unused product.
SECTI	ON 14: Transport inforr	nat	ion	
14.1 UN	Inumber			
AD	N	:	UN 1992	
AD	R	:	UN 1992	
RI	D	:	UN 1992	
IMI	DG	:	UN 1992	
IAT	ГА	:	UN 1992	
14.2 UN	I proper shipping name			
AD	N	:		UID, TOXIC, N.O.S. (petroleum), light aromatic, Ethion)
AD	R	:		UID, TOXIC, N.O.S. (petroleum), light aromatic, Ethion)
RI	)	:		UID, TOXIC, N.O.S. (petroleum), light aromatic, Ethion)
IMI	DG	:		UID, TOXIC, N.O.S. (petroleum), light aromatic, Ethion, Chlorpyr-
IAI	ГА	:	Flammable liquid, (Solvent naphtha	toxic, n.o.s. (petroleum), light aromatic, Ethion)
14.3 Tra	ansport hazard class(es)			
			Class	Subsidiary risks
AD	N	:	3	6.1
AD	R	:	3	6.1
RI	D	:	3	6.1
IMI	DG	:	3	6.1
IAI	ГА	:	3	6.1
14.4 Pa	cking group			
Cla Ha Lat <b>AD</b> Pa	cking group assification Code zard Identification Number bels I <b>R</b> cking group	:	III FT1 36 3 (6.1) III	
Cla	assification Code	:	FT1	



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Lat	zard Identification Number pels nnel restriction code	::	36 3 (6.1) (D/E)		
Cla Ha	<b>D</b> cking group assification Code zard Identification Number pels	:	III FT1 36 3 (6.1)		
Lat	<b>DG</b> cking group pels iS Code	:	III 3 (6.1) F-E, S-D		
Pa airc	<b>ΓΑ (Cargo)</b> cking instruction (cargo craft) cking instruction (LQ)	:	366 Y343		
Pa	cking group pels	:	III Flammable Liquid	ds, Toxic	
Pa ger Pa	<b>FA (Passenger)</b> cking instruction (passen- r aircraft) cking instruction (LQ) cking group	:	355 Y343 III		
Lat	pels	:	Flammable Liquid	ds, Toxic	
	vironmental hazards				
<b>AD</b> En	N vironmentally hazardous	:	yes		
<b>AD</b> En	R vironmentally hazardous	:	yes		
<b>RII</b> En	<b>)</b> vironmentally hazardous	:	yes		
	<b>DG</b> Irine pollutant	:	yes		
14.6 Sp	ecial precautions for use	r			
The bas She	e transport classification(s) sed upon the properties of t	pro he catio	unpackaged mater	or informational purposes only, and solely ial as it is described within this Safety Data ode of transportation, package sizes, and var-	
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code					

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

Remarks

: Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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



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The c	components of this I	product are reported	in the following inventories:
AICS	•	: not determined	_
DSL		: not determined	1
1500	•		
IECS	С	: not determined	1
5.2 Chen	nical safety assessn	nent	
Chemica	al Safety Assessment	has not been carried o	but.
SECTION	16: Other information	ation	
Other	r information		nanges have been made to the previous version in the body of this document by two vertical
Full t	ext of H-Statements		
H226		: Flammable liqu	uid and vapour.
H300		: Fatal if swallov	ved.
H301		: Toxic if swallov	ved.
H304		: May be fatal if	swallowed and enters airways.
H310		: Fatal in contac	
H312		: Harmful in con	tact with skin.
H315		: Causes skin iri	itation.
H318		: Causes seriou	s eye damage.
H330		: Fatal if inhaled	
H332		: Harmful if inha	led.
H335		: May cause res	piratory irritation.
H336			wsiness or dizziness.
H340		: May cause ger	
H350		: May cause car	
H360			ne unborn child.
H370		: Causes damage	
H372			e to organs through prolonged or repeated
		exposure.	, · · · · · · · · · · · · · · · · · · ·
H373			nage to organs through prolonged or repeated
H400		: Very toxic to a	quatic life
H410			quatic life with long lasting effects.
H411			c life with long lasting effects.
Full t	ext of other abbrevia	ations	
Acute		: Acute toxicity	
	tic Acute		ute) aquatic hazard
	tic Chronic		onic) aquatic hazard
Asp.		: Aspiration haz	
Carc.		: Carcinogenicity	
Eye D		: Serious eye da	
Flam.	•	: Flammable liqu	
Muta.		: Germ cell muta	
Repr.		: Reproductive t	oxicity
Skin I		: Skin irritation	



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9.0		935023-00019	Date of first issue: 12.10.2016
STOT STOT ZA OI ZA OI	SE	: Specific target : South Africa. T Agents, Occup : Occupational E	organ toxicity - repeated exposure organ toxicity - single exposure he Regulations for Hazardous Chemical ational Exposure Limits xposure Limit Restricted limit - 8- hour expo- ent (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 -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 : compile the Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Classification of the n	nixture:	Classification procedure:	
Flam. Liq. 3	H226	Based on product data or assessment	
Acute Tox. 3	H301	Calculation method	
Acute Tox. 4	H332	Calculation method	
Acute Tox. 3	H311	Calculation method	
Skin Irrit. 2	H315	Calculation method	

### SAFETY DATA SHEET



### Ethion / Chlorpyrifos / Alpha-Cypermethrin Formulation

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Eve	Dam. 1	H318	Calculation method
	a. 1B	H340	Calculation method
Card	c. 1B	H350	Calculation method
Rep	r. 1B	H360D	Calculation method
STOT SE 1		H370	Calculation method
STOT SE 3		H336	Calculation method
STC	T RE 1	H372	Calculation method
Asp.	Tox. 1	H304	Based on product data or assessment
Aqu	atic Acute 1	H400	Calculation method
Aqu	atic Chronic 1	H410	Calculation method

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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