

Vers 6.0	sion	Revision Date: 13.09.2024		0S Number: 56124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
SE		1: Identification of	the	substance/mixt	ure and of the company/undertaking
1.1	<b>Product</b> Trade r	i <b>dentifier</b> name	:	Deltamethrin (2.5	%) Formulation
1.2		the Sub-	he s :	ubstance or mixto Veterinary produc	ure and uses advised against t
	Recom on use	mended restrictions	:	Not applicable	
1.3	Details o	of the supplier of the	e saf	ety data sheet	
	Compa	ny	:	MSD 20 Spartan Road 1619 Spartan, So	buth Africa
	Telepho	one	:	+27119239300	
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com
1.4	-	ncy telephone numb -423-6000	er		
		2: Hazards identific			

### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3 Skin irritation, Category 2 Serious eye damage, Category 1 Skin sensitisation, Category 1 Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1B Reproductive toxicity, Category 2

Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Cat-

egory 1

H226: Flammable liquid and vapour.

- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H340: May cause genetic defects.
- H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure. H304: May be fatal if swallowed and enters air-

H304: May be fatal if swallowed and enters airways.

H400: Very toxic to aquatic life.

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



## Deltamethrin (2.5%) Formulation

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2.2 Label el	ements			
	ng (REGULATION (E pictograms	E <b>C)</b>	No 1272/2008)	
Signal	word	:	Danger	
Hazard	statements	:	H304May be fatH315Causes skH317May causeH318Causes seH336May causeH340May causeH350May causeH361SuspectedH373May causerepeated exposure	of damaging fertility or the unborn child. a damage to organs through prolonged or
Precau	tionary statements	:	Prevention:	
			P210 Keep away flames and other ig P273 Avoid relea	ecial instructions before use. / from heat, hot surfaces, sparks, open gnition sources. No smoking. ase to the environment. ective gloves/ protective clothing/ eye protec- n.
			with water for seve	
Hazard	ous components whic	:h m	nust be listed on the	label:

Solvent naphtha (petroleum), light aromatic Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts 4-Nonylphenol, branched, ethoxylated deltamethrin (ISO)

### **Additional Labelling**

Restricted to professional users.

### 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.

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapours may form explosive mixture with air.



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## **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
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Not Assigned 271-529-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
4-Nonylphenol, branched, ethoxylat- ed	127087-87-0	Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 3 - < 10
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
deltamethrin (ISO)	52918-63-5 258-256-6 607-319-00-X	Acute Tox. 3; H301 Acute Tox. 3; H331 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361fd STOT SE 3; H335 STOT RE 1; H372 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 3
		M-Factor (Acute aquatic toxicity): 1.000.000 M-Factor (Chronic	



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2,6-D	i-tert-butyl-p-cresol	128-37-0 204-881-4	aquatic toxicity):         1.000.000         Aquatic Acute 1;         H400         Aquatic Chronic 1;         H410         M-Factor (Acute         aquatic toxicity): 1         M-Factor (Chronic         aquatic toxicity): 1	2,5

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

4.1 Description of first aid measu	res			
General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>			
Protection of first-aiders	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).			
If inhaled	: If inhaled, remove to fresh air. Get medical attention.			
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>			
In case of eye contact	<ul> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention immediately.</li> </ul>			
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>If vomiting occurs have person lean forward.</li> <li>Call a physician or poison control centre immediately.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>			
4.2 Most important symptoms and effects, both acute and delayed				
Risks	<ul> <li>May be fatal if swallowed and enters airways.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>May cause drowsiness or dizziness.</li> </ul>			



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				ains a pyrethroid. ing should not be confused with carbamate ate poisoning.
<b>4.3 Indica</b> Treat	-	mec :		d special treatment needed cally and supportively.
SECTION	N 5: Firefighting meas	sur	25	
5.1 Exting	uishing media			
Suital	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsu media	itable extinguishing a	:	High volume wate	er jet
5.2 Specia	al hazards arising from	the	substance or mi	xture
-	ific hazards during fire-	:	Do not use a solid fire. Flash back possil 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.
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides ( Bromine compou Sulphur oxides Metal oxides	
5.3 Advice	e for firefighters			
Speci	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
Speci ods	ific extinguishing meth-	:	cumstances and Use water spray	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 de

### SAFETY DATA SHEET



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

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	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).			
6.2 Environmental precautions				
Environmental precautions	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Prevent spreading over a wide area (e.g. by containment or oil barriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>			

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<ul> <li>Non-sparking tools should be used.</li> <li>Soak up with inert absorbent material.</li> </ul>
	Soak up with her absorbent material. Suppress (knock down) gases/vapours/mists with a water
	sprav jet.
	For large spills, provide dyking or other appropriate contain-
	ment to keep material from spreading. If dyked material can
	be pumped, store recovered material in appropriate container.
	Clean up remaining materials from spill with suitable absor-
	bent.
	Local or national regulations may apply to releases and dis-
	posal of this material, as well as those materials and items
	employed in the cleanup of releases. You will need to deter-
	mine which regulations are applicable.
	Sections 13 and 15 of this SDS provide information regarding
	certain local or national requirements.

### 6.4 Reference to other sections

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

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exha	aust
	Use explosion-proof electrical, ventilating and lighting ec ment.	-uip
Advice on safe handling	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> </ul>	



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Hygien	e measures	<ul> <li>Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposusessment</li> <li>Non-sparking tools should be used.</li> <li>Keep container tightly closed.</li> <li>Keep away from heat, hot surfaces, sparks, open flam other ignition sources. No smoking.</li> <li>Take precautionary measures against static discharge Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release environment.</li> <li>If exposure to chemical is likely during typical use, proof flushing systems and safety showers close to the work place. When using do not eat, drink or smoke. Contarr work clothing should not be allowed out of the workpla Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include revise engineering controls, proper personal protective equip appropriate degowning and decontamination procedur industrial hygiene monitoring, medical surveillance and use of administrative controls.</li> </ul>	
7.2 Condition	ons for safe storage, i	including any incomp	patibilities
	ements for storage and containers	tightly closed. Kee accordance with t	abelled containers. Store locked up. Keep ep in a cool, well-ventilated place. Store in the particular national regulations. Keep nd sources of ignition.
Advice	on common storage	Strong oxidizing a Self-reactive subs Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs Substances and r flammable gases Explosives Gases	stances and mixtures s
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
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal





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П	F	urther informatio	on: DSEN, Skin		
		W	ipe limit 10	0 µg/100 cm²	Internal
Deriv	ed No Effect Lev	el (DNEL) acco	ording to Regulation	n (EC) No. 1907/2006	
Subst	tance name	End Use	Exposure routes	Potential health ef- fects	Value
2,6-Di-tert-butyl-p- cresol		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
C10-1	enesulfonic acid, 13-alkyl derivs., ım salts	Workers	Skin contact	Long-term systemic effects	1,7 mg/kg bw/day
		Consumers	Skin contact	Long-term systemic effects	85 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	89 mg/kg bw/day
Polye casto	thylene glycol r oil	Workers	Inhalation	Long-term systemic effects	16,4 mg/m3
		Workers	Skin contact	Long-term systemic effects	4,67 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	2,9 mg/m3
		Consumers	Skin contact	Long-term systemic effects	1,67 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	1,67 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
Benzenesulfonic acid, C10-13- alkyl derivs., calcium salts	Fresh water	0,023 mg/l
	Marine water	0,002 mg/l
	Sewage treatment plant	3 mg/l
	Fresh water sediment	0,174 mg/kg dry weight (d.w.)



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		Marine sedime	nt	0,017 mg/kg dry weight (d.w.)
		Soil		0,62 mg/kg dry weight (d.w.)
	Polyethylene glycol castor oil	Fresh water		0,000 mg/l
		Freshwater - in	termittent	0,0661 mg/l
		Marine water		0,000 mg/l
		Marine water -	intermittent	0,00661 mg/l
		Fresh water se	diment	0,0129 mg/kg dry weight (d.w.)
		Marine sedime	nt	0,00129 mg/kg dry weight (d.w.)
		Soil		0,00258 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

### **Engineering measures**

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

### Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially
Respiratory protection	:	contaminated clothing. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapour type (A-P)

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

### 9.1 Information on basic physical and chemical properties



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	Appear Colour Odour Odour	ance Threshold	: :	liquid yellow No data available No data available	
	рН		:	4 - 5	
	Melting	point/freezing point	:	< -5 °C	
		oiling point and boiling	:	No data available	)
	range Flash p	oint	:	40 °C	
	Evapor	ation rate	:	No data available	)
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	0,909 - 0,927 g/c	m³ (20 °C)
l	Partitio octanol	er solubility n coefficient: n- /water	:	partly miscible Not applicable	
	-	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		formation ability (liquids)		Not applicable	
		lar weight		No data available	
	Particle	-		Not applicable	
			•		



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SECTION	I 10: Stability and	reactivity		
<b>10.1 Reac</b> Not cl	<b>tivity</b> assified as a reactivit	ty hazard.		
	nical stability e under normal condi	tions.		
10.3 Poss	ibility of hazardous	reactions		
	rdous reactions	: Flammable liqu Vapours may f	uid and vapour. orm explosive mixture with air. strong oxidizing agents.	
10.4 Cond	litions to avoid			
Condi	itions to avoid	: Heat, flames a	nd sparks.	
10.5 Incor	npatible materials			
Mater	ials to avoid	: Oxidizing ager	its	
	rdous decompositio			
	I 11: Toxicologica	ion products are known I information		
SECTION	•	l information		
SECTION	I 11: Toxicologica mation on toxicolog nation on likely routes	l information		
SECTION 11.1 Inform Inform expose Acute	I 11: Toxicologica mation on toxicolog nation on likely routes sure	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact		
SECTION 11.1 Inform Inform expose Acute Not cl	I 11: Toxicologica mation on toxicolog nation on likely routes sure toxicity assified based on ave	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact		
SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u>	I 11: Toxicologica mation on toxicolog nation on likely routes sure toxicity assified based on ave	I information fical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information.	stimate: > 2.000 mg/kg	
SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u> Acute	I 11: Toxicologica mation on toxicolog nation on likely routes sure e toxicity assified based on ava uct:	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information. : Acute toxicity e Method: Calcul	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist	
SECTION 11.1 Inform Inform expose Acute Not cl Produ Acute	I 11: Toxicologica mation on toxicolog nation on likely routes sure toxicity assified based on ave uct: oral toxicity	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information. : Acute toxicity e Method: Calcul : Acute toxicity e Exposure time: Test atmosphe	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist	
SECTION 11.1 Inform Inform expose Acute Not cl Produ Acute Acute	I 11: Toxicologica mation on toxicolog nation on likely routes sure a toxicity assified based on ava <u>uct:</u> oral toxicity inhalation toxicity	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information. : Acute toxicity e Method: Calcul : Acute toxicity e Exposure time: Test atmosphe	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist	
SECTION 11.1 Inform Inform expose Acute Not cl Produ Acute Acute Acute	I 11: Toxicologica mation on toxicolog nation on likely routes sure a toxicity assified based on ava <u>uct:</u> oral toxicity inhalation toxicity	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information. : Acute toxicity e Method: Calcul : Acute toxicity e Exposure time: Test atmosphe Method: Calcul	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist ation method	
SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u> Acute Acute Comp Solve	I 11: Toxicologica mation on toxicolog nation on likely routes sure toxicity assified based on ave <u>uct:</u> oral toxicity inhalation toxicity <u>conents:</u>	I information jical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information. : Acute toxicity e Method: Calcul : Acute toxicity e Exposure time: Test atmosphe Method: Calcul	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist ation method	



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II				
Benz	enesulfonic acid, C10-	13-a	ılkyl derivs., calci	um salts:
Acute	oral toxicity	:	LD50 (Rat): 4.44	5 mg/kg
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 on data from similar materials
4-Nor	nylphenol, branched, e	tho	xylated:	
Acute	oral toxicity	:	LD50 (Rat): > 2.0	00 mg/kg
II deltai	methrin (ISO):			
	oral toxicity	:	LD50 (Rat): 66,7	mg/kg
			LD50 (Rat): 9 - 13	39 mg/kg
			LD50 (Mouse): 19	9 - 34 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0,8 n Exposure time: 2 Test atmosphere	ĥ
Acute	e dermal toxicity	:	LD50 (Rabbit): 2.	000 mg/kg
			LD50 (Rat): > 800	) mg/kg
	e toxicity (other routes of histration)	:	LD50 (Rat): 2,5 n Application Route	
			LD50 (Mouse): 10 Application Route	
11 2.6-D	i-tert-butyl-p-cresol:			
	oral toxicity	:	LD50 (Rat): > 6.0 Method: OECD T	00 mg/kg rest Guideline 401
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute dermal
	corrosion/irritation es skin irritation.			
<u>Comp</u>	ponents:			
Solve	ent naphtha (petroleum	), li	ght aromatic:	
Speci Metho Resul	bd	:	Rabbit OECD Test Guide Skin irritation	eline 404



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Benzo	enesulfonic acid, C1	10-13-alkyl derivs., ca	lcium salts:
Speci	es	: Rabbit	
Metho	bd	: OECD Test G	uideline 404
Resul	lt	: Skin irritation	
4-Nor	nylphenol, branched	l, ethoxylated:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test Gu	uideline 404
Resul	lt	: No skin irritatio	
Rema	arks	: Based on data	from similar materials
delta	methrin (ISO):		
Speci	es	: Rabbit	
Resul	lt	: No skin irritatio	on
2,6-D	i-tert-butyl-p-cresol	:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test G	uideline 404
Resul	lt	: No skin irritatio	
Rema	arks	: Based on data	from similar materials
Solve Speci Metho Resul		um), light aromatic: : Rabbit : OECD Test Gu : No eye irritatio	
_			
		10-13-alkyl derivs., ca	licium salts:
Speci		: Rabbit	vidalina 405
Metho Resul		: OECD Test Gu : Irreversible eff	ects on the eye
4 No.	ulahanal kwanakaa		
	nylphenol, branched	-	
Speci Metho		: Rabbit : OECD Test Gu	uideline 405
Metho Resul		: OECD Test Gi : No eye irritatio	
Resul			from similar materials
III VEINO		. Dased on dala	
	methrin (ISO):		
Speci		: Rabbit	
Resul	IT	: Moderate eye	Irritation
	i-tert-butyl-p-cresol	:	
Speci		: Rabbit	
Metho	bd	: OECD Test G	uideline 405
		13 / 3	0



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	Result Remarks		No eye irritation Based on data	า from similar materials
Resp	iratory or skin sensit	tisatio	n	
	sensitisation		-	
	cause an allergic skin i	eactio	n.	
-	iratory sensitisation	ileble i		
	lassified based on ava	liable	niormation.	
Com	oonents:			
Solve	ent naphtha (petroleu	ım), liç	ght aromatic:	
Test		:	Buehler Test	
Expos Speci	sure routes	:	Skin contact Guinea pig	
Resu		:	negative	
			-	
Benz	enesulfonic acid, C1	0-13-a	lkyl derivs., ca	cium salts:
Test		:	Magnusson-Kli	gman-Test
	sure routes	:	Skin contact	
Speci Metho		:	Guinea pig OECD Test Gu	ideline 406
Rema	arks	:		from similar materials
	nylphenol, branched,	, etho	-	
Test	Type	:	Maximisation T	est
Speci	sure routes	:	Skin contact Guinea pig	
Resu	lt	:	negative	
Rema	arks	:	Based on data	from similar materials
	methrin (ISO):		Maximisation T	
Test Expos	sure routes	:	Dermal	est
Speci		:	Guinea pig	
Resu	lt	:	negative	
Test	Гуре	:	Human repeat	insult patch test (HRIPT)
Expos	sure routes	:	Dermal	······································
Speci		:	Humans	
Resu	IC	:	positive	
2 6-D	i-tert-butyl-p-cresol:			
Test	•••		Human repeat	insult patch test (HRIPT)
Expos	sure routes	:	Skin contact	
Speci	es	:	Humans	
Resu	IT	:	negative	

## SAFETY DATA SHEET



ersion 0	Revision Date: 13.09.2024	-	S Number: 56124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
May o	<b>a cell mutagenicity</b> cause genetic defects. ponents:			
Solve	ent naphtha (petroleun	n). li	ght aromatic:	
	toxicity in vitro	-	-	erial reverse mutation assay (AMES)
			Test Type: In vit Result: positive	ro mammalian cell gene mutation test
Geno	toxicity in vivo	:	gonia Species: Mouse	er chromatid exchange analysis in spermato-
Germ sessr	i cell mutagenicity- As- nent	:	Positive result(s tests in mamma	) from in vivo heritable germ cell mutagenicity Is
Benz	enesulfonic acid, C10-	·13-a	alkyl derivs., cald	cium salts:
	toxicity in vitro		Test Type: Bact Method: Directiv Result: negative	erial reverse mutation assay (AMES) ve 67/548/EEC, Annex, B.13/14
II 4-Noi	nylphenol, branched, e	etho	xylated:	
Geno	toxicity in vitro	:	Method: OECD Result: negative	erial reverse mutation assay (AMES) Test Guideline 471 d on data from similar materials
			Method: OECD Result: negative	mosome aberration test in vitro Test Guideline 473 d on data from similar materials
			Method: OECD Result: negative	ro mammalian cell gene mutation test Test Guideline 476 d on data from similar materials
delta	methrin (ISO):			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			rtoodin noganito	
			Test Type: DNA Test system: Es Result: negative	Repair cherichia coli



sion	Revision Date: 13.09.2024	SDS Number: 2656124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
11		Result: negativ	e
		Test system: C	tro mammalian cell gene mutation test hinese hamster lung cells LOAEL: 20 mg/kg
Genot	toxicity in vivo	: Test Type: Mic Species: Mous Application Rou Result: negativ	e ute: Oral
		Test Type: don Species: Mous Application Rou Result: negativ	ute: Oral
		Test Type: siste Species: Mous Cell type: Bone Application Roo Result: negativ	marrow ute: Oral
11 2,6-Di	i-tert-butyl-p-cresol:		
Genot	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
		Test Type: In v Result: negativ	tro mammalian cell gene mutation test
		Test Type: Chr Result: negativ	omosome aberration test in vitro e
Genot	toxicity in vivo	cytogenetic tes Species: Rat	agenicity (in vivo mammalian bone-marrow t, chromosomal analysis)
		Application Rou Result: negativ	
Carci	nogenicity		
	ause cancer.		
	oonents:		
Solve Speci	ent naphtha (petrole)	um), light aromatic: : Mouse	
	ation Route	: Skin contact	
Expos	sure time	: 2 Years	
Resul	t	: positive	
Carcir ment	nogenicity - Assess-	: Sufficient evide	nce of carcinogenicity in animal experimen



/ersion 3.0	Revision Date: 13.09.2024	SDS Number: 2656124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
delta	methrin (ISO):		
	cation Route sure time EL	: Mouse, male ar : oral (feed) : 104 weeks : 8 mg/kg body w : 4 mg/kg body w	veight
Resu Targe	lt et Organs	: positive : Lymph nodes	
	cation Route sure time	: Rat, male and f : oral (feed) : 2 Years : negative	emale
	cation Route sure time EL	: Dog, male and : oral (feed) : 2 Years : 1 mg/kg body w : negative	
2,6-D	i-tert-butyl-p-cresol:		
	cation Route sure time	: Rat : Ingestion : 22 Months : negative	
-	oductive toxicity ected of damaging ferti	lity or the unborn child	I.
<u>Com</u>	ponents:		
	ent naphtha (petroleur ts on fertility	: Test Type: Rep test Species: Rat	roduction/Developmental toxicity screening ite: inhalation (vapour)
Effect ment	ts on foetal develop-	Species: Rat	oryo-foetal development ite: inhalation (vapour) e
4-Noi	nylphenol, branched,	ethoxylated:	
	oductive toxicity - As-	: Some evidence	of adverse effects on sexual function and on development, based on animal experiments.

# deltamethrin (ISO):

Effects on fertility	: Test Type: Three-generation reproduction toxicity study
	Species: Rat
	Application Route: oral (feed)
	Early Embryonic Development: NOAEL: 50 mg/kg body



rsion	Revision Date: 13.09.2024	SDS Number: 2656124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
			No effects on fertility, Embryo-foetal toxicity gnificant toxicity observed in testing
		Species: Rat Application F Early Embry weight	
			:, male Route: Oral \EL: 1 mg/kg body weight Effects on fertility
Effects on foetal develop- ment		Developmen Result: Skele	
		Developmen	
Repro sessn	oductive toxicity - As- nent		nce of adverse effects on sexual function and or on development, based on animal experimen
2,6-Di	i-tert-butyl-p-cresol:		
	s on fertility	Species: Rat	Route: Ingestion
Effect ment	s on foetal develop-	Species: Rat	Route: Ingestion

## STOT - single exposure

May cause drowsiness or dizziness.



ersion .0	Revision Date: 13.09.2024	SDS Number: 2656124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
Comp	oonents:		
Solve	ent naphtha (petrole	um), light aromatic:	
Asses			rowsiness or dizziness.
deltar Asses	methrin (ISO):		espiratory irritation.
ASSES	Sillent	. May cause to	
STOT	- repeated exposur	e	
May c	ause damage to orga	ans through prolonge	d or repeated exposure.
<u>Comp</u>	oonents:		
deltar	methrin (ISO):		
	sure routes	: Ingestion	
	et Organs		bus system, Immune system
Asses	ssment	: Causes dam exposure.	age to organs through prolonged or repeated
	sure routes		ust/mist/fume)
	et Organs ssment	: Central nervo	age to organs through prolonged or repeated
/ 10000	binent	exposure.	age to organis through protonged of repeated
	i-tert-butyl-p-cresol		
Asses	ssment		t health effects observed in animals at concentr ng/kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
	<u>ponents:</u> ent naphtha (petrole	um), light aromatic:	
	ent naphtha (petrole	: Rat	
<b>Solve</b> Speci LOAE	e <b>nt naphtha (petrole</b> es EL	: Rat : 500 mg/kg	
Solve Speci LOAE Applic	ent naphtha (petrole es EL cation Route	: Rat : 500 mg/kg : Ingestion	
Solve Speci LOAE Applic	e <b>nt naphtha (petrole</b> es EL	: Rat : 500 mg/kg	
Solve Speci LOAE Applic Expos	ent naphtha (petrole es EL cation Route	: Rat : 500 mg/kg : Ingestion : 28 Days	
Solve Speci LOAE Applic Expos 4-Nor	ent naphtha (petrole es EL cation Route sure time nylphenol, branchec es	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat	
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg	
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion	
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic Expos	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route sure time	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion : 90 Days	
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route sure time od	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion : 90 Days : OPPTS 870.	
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic Expos Metho Rema	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route sure time od arks	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion : 90 Days : OPPTS 870.	3100
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic Expos Metho Rema	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route sure time od arks methrin (ISO):	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion : 90 Days : OPPTS 870. : Based on da	3100 ta from similar materials
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic Expos Metho Rema	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route sure time od arks methrin (ISO): es	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion : 90 Days : OPPTS 870.	3100 ta from similar materials
Solve Speci LOAE Applic Expos 4-Nor Speci LOAE Applic Expos Metho Rema deltar Speci NOAE LOAE	ent naphtha (petrole es EL cation Route sure time nylphenol, branched es EL cation Route sure time od arks methrin (ISO): es EL	: Rat : 500 mg/kg : Ingestion : 28 Days I, ethoxylated: : Rat : 150 mg/kg : Ingestion : 90 Days : OPPTS 870. : Based on da : Rat, male an	3100 ta from similar materials



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	sure time t Organs toms	: 13 Weeks : Nervous system : hyperexcitability				
	L ation Route sure time	: 2 wk / 5 d/wk / 6	: 3 mg/m3 : inhalation (dust/mist/fume)			
Expos	EL E cation Route sure time t Organs		<ul> <li>: 0,1 mg/kg</li> <li>: 1 mg/kg</li> <li>: Oral</li> <li>: 13 Weeks</li> <li>: Nervous system</li> <li>: Dilatation of the pupil, Vomiting, Tremors, Diarrhoea, Saliva-</li> </ul>			
Expos	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous systen	n			
Expos	L cation Route sure time t Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune system : immune system				
2 6-Di	i-tert-butyl-n-cresol·					

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

Species	: Rat
Species NOAEL Application Route	: 25 mg/kg
Application Route	: Ingestion
Exposure time	: 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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Expe	rience with human e	xposu	ire		
<u>Com</u>	oonents:				
delta	methrin (ISO):				
Inhalation		:	Headache, Naus	ratory tract irritation, Dizziness, Sweating, ea, Vomiting, anorexia, Fatigue, tingling, ed vision, muscle twitching	
Skin contact		:	Symptoms: Skin irritation, Erythema, pruritis, Headache, Nau- sea, Vomiting, Dizziness, tingling, Sweating, muscle twitching, Blurred vision, Fatigue, anorexia, Allergic reactions		
Inges	tion	:		cle pain, Small pupils	

## **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Components:**

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

oolvent napitina (petroleum),	
Toxicity to fish :	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
Benzenesulfonic acid, C10-13-	-alkyl derivs., calcium salts:
Toxicity to fish :	LC50 : > 1 - < 10 mg/l Exposure time: 96 h

	Exposure time: 96 h Method: OECD Test Guideline 203
:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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I			Remarks: Based	on data from similar materials
Toxicity plants	y to algae/aquatic	:	100 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 10 - S h on data from similar materials
			1 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0,1 - S h on data from similar materials
Toxicity icity)	y to fish (Chronic tox-	:	Exposure time: 72 Species: Oncorhy	
	y to daphnia and other invertebrates (Chron- ity)		Exposure time: 21 Species: Daphnia	l d magna (Water flea) on data from similar materials
4-Non	/lphenol, branched, e	tho	xylated:	
	y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 0,1 - 1 mg/l 5 h on data from similar materials
	y to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0,1 - 1 mg/l 3 h on data from similar materials
Toxicity plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
			Exposure time: 72 Method: OECD Te	
M-Fact icity)	or (Acute aquatic tox-	:	1	
Toxicity icity)	y to fish (Chronic tox-	:		
	y to daphnia and other invertebrates (Chron- ity)	:		



rsion )	Revision Date: 13.09.2024		0S Number: 56124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018		
M-Fac toxicit	ctor (Chronic aquatic y)	:	10			
	nethrin (ISO):					
Toxici	ty to fish	:	<ul> <li>LC50 (Cyprinodon variegatus (sheepshead minnow mg/l Exposure time: 96 h</li> </ul>			
			LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 0,00039 mg/l 6 h		
	ty to daphnia and other ic invertebrates	:	EC50 (Mysidopsi Exposure time: 4	s bahia (opossum shrimp)): 0,0037 μg/l 8 h		
			EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0,0035 mg/l 8 h		
			LC50 (Gammarus Exposure time: 9	s fasciatus (freshwater shrimp)): 0,0003 μg/ δ h		
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7: Method: OECD T			
M-Fac icity)	ctor (Acute aquatic tox-	:	1.000.000			
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0,000022 Exposure time: 30 Species: Pimepha			
			NOEC: 0,000017 Exposure time: 20 Species: Pimepha			
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2			
M-Fac toxicit	ctor (Chronic aquatic y)	:	1.000.000			
2,6-Di	-tert-butyl-p-cresol:					
Toxici	ty to fish	:	Exposure time: 9	o (zebra fish)): > 0,57 mg/l 6 h e 67/548/EEC, Annex V, C.1.		
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0,48 mg/l 8 h est Guideline 202		
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudoki mg/l	rchneriella subcapitata (green algae)): > 0,2		



/ersion 6.0	Revision Date: 13.09.2024		0S Number: 56124-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
			Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
M-Fao icity)	ctor (Acute aquatic tox-	:	1	
Тохіс	ity to microorganisms	:	EC50 : > 10.000 r Exposure time: 3 Method: OECD T	h
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,053 mg/ Exposure time: 30 Species: Oryzias Method: OECD T	) d latipes (Japanese medaka)
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2'	
M-Fa toxicit	ctor (Chronic aquatic ty)	:	1	
2.2 Persi	istence and degradabili	ity		
<u>Com</u>	ponents:			
Solve	ent naphtha (petroleum	), li	ght aromatic:	
	egradability	:	Result: Inherently Biodegradation: 9 Exposure time: 25	94 %
II Benz	enesulfonic acid, C10-1	3-a	ılkvl derivs calci	um salts:
	gradability	:	Result: Readily bi Biodegradation: Exposure time: 28	odegradable. 100 %
4-Noi	nylphenol, branched, e	tho	xylated:	
	egradability	:	Result: Not readily	y biodegradable. on data from similar materials
delta	methrin (ISO):			
		:	Hydrolysis: 0 %(3	0 d)
	lity in water			
2,6-D	ity in water			



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I		Method: OECI	D Test Guideline 301C
12.3 Bioa	ccumulative potential		
Com	oonents:		
Benz	enesulfonic acid, C10	alkyl derivs., ca	Icium salts:
	ion coefficient: n- ol/water	log Pow: 2,89	
	methrin (ISO):		
Bioac	cumulation		mis macrochirus (Bluegill sunfish) on factor (BCF): 1.800
	ion coefficient: n- ol/water	log Pow: 4,6	
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	
12.4 Mobi	lity in soil		
Com	oonents:		
delta	methrin (ISO):		
	oution among environ- al compartments	log Koc: 7,2	
12.5 Resu	Its of PBT and vPvB a	essment	
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:		
	crine disrupting poten-	have endocrine	e/mixture contains components considered to e disrupting properties for environment, accord- Article 57(f), Commission Regulation (EU) ommission Delegated Regulation (EU)
Com	oonents:		
4-Noi	nylphenol, branched, o	oxylated:	
Endo tial	crine disrupting poten-		e is considered to have endocrine disrupting ording to REACH Article 57(f) for the environ-



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### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	<ul> <li>Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>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.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **SECTION 14: Transport information**

### 14.1 UN number

ADN		:	UN 3295	
ADR		:	UN 3295	
RID		:	UN 3295	
IMDG		:	UN 3295	
ΙΑΤΑ		:	UN 3295	
14.2 UN pr	oper shipping name			
ADN		:	HYDROCARBONS, L	-IQUID, N.O.S.
ADR		:	HYDROCARBONS, L	LIQUID, N.O.S.
RID		:	HYDROCARBONS, L	LIQUID, N.O.S.
IMDG		:	HYDROCARBONS, L (deltamethrin (ISO), 2	LIQUID, N.O.S. 2,6-Di-tert-butyl-p-cresol)
ΙΑΤΑ		:	Hydrocarbons, liquid,	n.o.s.
14.3 Trans	port hazard class(es)			
			Class	Subsidiary risks
ADN		:	3	
ADR		:	3	
RID		:	3	
IMDG		:	3	
ΙΑΤΑ		:	3	
14.4 Packi	ng group			



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Cla Ha:	<b>N</b> cking group ssification Code zard Identification Number pels	:	III F1 30 3	
Cla Ha: Lat	<b>R</b> cking group ssification Code zard Identification Number pels anel restriction code	:	III F1 30 3 (D/E)	
Cla Ha:	<b>)</b> cking group ssification Code zard Identification Number pels	:	III F1 30 3	
Lat	<b>DG</b> cking group bels S Code	:	III 3 F-E, S-D	
Pao airc Pao Pao	<b>A (Cargo)</b> cking instruction (cargo craft) cking instruction (LQ) cking group pels	:	366 Y344 III Flammable Liquid	ds
Pao ger Pao Pao	<b>A (Passenger)</b> eking instruction (passen- aircraft) eking instruction (LQ) eking group bels	:	355 Y344 III Flammable Liquid	ds
	vironmental hazards			
<b>AD</b> Env	<b>N</b> /ironmentally hazardous	:	yes	
<b>AD</b> Env	<b>R</b> /ironmentally hazardous	:	yes	
<b>RIE</b> Env	) /ironmentally hazardous	:	yes	
IMI Ma	<b>)G</b> rine pollutant	:	yes	
	ecial precautions for use	r		
The	e transport classification(s) ed upon the properties of t	pro the	unpackaged mater	or informational purposes only, and solely ial as it is described within this Safety Data

based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks





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

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

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.	
Full text of H-Statements			
H226 H301 H304 H315 H317 H318 H319 H331 H335 H336 H340 H350 H361 H361fd H372		Flammable liquid and vapour. Toxic if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if inhaled.	
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.	
H400 H410 H411 H412	::	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.	
Full text of other abbreviation	ns		
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc.	:	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity	



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Eye I Eye I Flam Muta Repr Skin I Skin S STOT	rrit. Liq. rrit. Sens. RE		uids tagenicity toxicity
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 Test-			

s by esting 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the	mixture:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method



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Muta. 1B		H340	Calculation method
Carc. 1B		H350	Calculation method
Repr. 2		H361	Calculation method
STOT SE 3		H336	Calculation method
STOT RE 2		H373	Calculation method
Asp. Tox. 1		H304	Based on product data or assessment
Aquatic Acute 1		H400	Calculation method
Aquatic 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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