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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Deltamethrin (3%) Formulation
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3H22Acute toxicity, Category 4H30Acute toxicity, Category 4H33Acute toxicity, Category 4H31Skin irritation, Category 2H31Serious eye damage, Category 1H31Skin sensitisation, Category 1H31Reproductive toxicity, Category 2H36of daSpecific target organ toxicity - single ex-

posure, Category 3 Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1 H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H332: Harmful if inhaled.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.

H304: May be fatal if swallowed and enters air-

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Short-term (acute) aquatic hazard, Cate- gory 1 Long-term (chronic) aquatic hazard, Cat- egory 1			Very toxic to aquatic life. Very toxic to aquatic life with long lasting 5.	
2.2 Label elements				
Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)				

Hazard pictograms :		
Signal word :	Danger	• • • •
Hazard statements :	H226 H302 + H3 ⁻ H304 H315 H317 H318 H335 H361fd H373 H410	Flammable liquid and vapour. 12 + H332 Harmful if swallowed, in contact with skin or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements :	Prevention	:
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:	
	P301 + P31	0 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P305 + P35	51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor.
	P391	Collect spillage.
Hazardous components which I	nust be listed	on the label.

Calcium dodecylbenzenesulphonate Nonylphenol, ethoxylated deltamethrin (ISO) According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Xylene	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 70 - < 90
Calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic	>= 3 - < 10
deltamethrin (ISO)	52918-63-5 258-256-6 607-319-00-X	aquatic toxicity): 10 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	>= 3 - < 10

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			(Central nervous system, Immune system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1,000,000 M-Factor (Chronic aquatic toxicity): 1,000,000	
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	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

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In cas	se of eye contact	:	for at least 15 mir	ove contact lens, if worn.
lf swa	allowed	:	If vomiting occurs Call a physician of Rinse mouth thore	NOT induce vomiting. have person lean forward. or poison control centre immediately. oughly with water. ng by mouth to an unconscious person.
4.2 Most i	mportant symptoms a	nd e	effects. both acute	e and delaved
Risks		:	Harmful if swallow May be fatal if sw Causes skin irrita May cause an alle Causes serious e May cause respin Suspected of dan unborn child.	ved, in contact with skin or if inhaled. allowed and enters airways. tion. ergic skin reaction. ye damage.
			or organophosph	ing should not be confused with carbamate ate poisoning.
4.3 Indica Treat	•	meo :		d special treatment needed cally and supportively.
SECTION	1 5: Firefighting meas	sur	es	
5.1 Extino	uishing media			
-	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C 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 possit Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.
Haza	rdous combustion prod-	:	Carbon oxides	

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ucts			Nitrogen oxides (Bromine compou Metal oxides Sulphur compour	nds
5.3 Advi	ce for firefighters			
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spe ods	Specific extinguishing meth- ods		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 do

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 protective equipment recommendations (see section 8).
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). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ-

ment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray 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.

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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 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 assessment Non-sparking tools should be used. Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers. 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 content of the station of the spiratory of the spiratory of the spiratory indication of the spiratory of the spiratory indication of the spiratory measures against static discharges.
Hygiene measures	 environment. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage in	cluding any incompatibilities

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	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.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures

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		Substances and flammable gase Explosives Gases	ds ds ls ostances and mixtures I 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
Xylene	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
	Further inform	nation: Can be absor	bed through the skin. The as	signed sub-
	stances are th	nose for which there	are concerns that dermal ab	sorption will
	lead to system	nic toxicity.		
		STEL	100 ppm	GB EH40
			441 mg/m3	
	Further inform	nation: Can be absor	bed through the skin. The as	signed sub-
	stances are th	nose for which there	are concerns that dermal ab	sorption will
	lead to system	nic toxicity.		
		TWA	50 ppm 221 mg/m3	2000/39/EC
		Further information: Identifies the possibility of significant uptake through t skin, Indicative		
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			ke through the
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
, ,	Further inform	nation: DSEN, Skin	· · - · ·	
		Wipe limit	100 µg/100 cm ²	Internal
2,6-Di-tert-butyl-p- cresol	128-37-0	TŴA	10 mg/m3	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene	1330-20-7	methyl hippuric	After shift	GB EH40
		acid: 650 Millimo-		BAT

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			les per mole crea inine (Urine)	at-	
Deriv	ed No Effect Lev	vel (DNEL)			
Subst	ance name	End Use	Exposure routes	Potential health ef- fects	Value
Xylen	e	Workers	Inhalation	Long-term systemic effects	221 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
		Workers	Inhalation	Long-term local ef- fects	221 mg/m3
		Workers	Inhalation	Acute local effects	442 mg/m3
		Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	65.3 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	65.3 mg/m3
		Consumers	Inhalation	Acute local effects	260 mg/m3
		Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	12.5 mg/kg bw/day
2,6-Di 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
	um dodecylben- sulphonate	Workers	Inhalation	Long-term systemic effects	52 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	52 mg/m3
		Workers	Inhalation	Long-term local ef- fects	52 mg/m3
		Workers	Inhalation	Acute local effects	52 mg/m3
		Workers	Skin contact	Long-term systemic effects	57.2 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	80 mg/kg bw/day
		Workers	Skin contact	Long-term local ef- fects	1.57 mg/kg bw/day
		Workers	Skin contact	Acute local effects	1.57 mg/kg bw/day





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		Consumers	Inhalatio	h Long-term systemic effects	26 mg/m3
		Consumers	Inhalation	n Acute systemic ef- fects	26 mg/m3
		Consumers	Inhalatio	Acute local effects	26 mg/m3
		Consumers	Inhalation	h Long-term local ef- fects	26 mg/m3
		Consumers	Skin cont	act Long-term systemic effects	28.6 mg/kg bw/day
		Consumers	Skin cont	act Acute systemic ef- fects	40 mg/kg bw/day
		Consumers	Skin cont	act Acute local effects	0.787 mg/kg bw/day
		Consumers	Skin cont	act Long-term local ef- fects	0.787 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	13 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	13 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Xylene	Fresh water	0.327 mg/l
	Intermittent use/release	0.327 mg/l
	Marine water	0.327 mg/l
	Sewage treatment plant	6.58 mg/l
	Fresh water sediment	12.46 mg/kg dry weight (d.w.)
	Marine sediment	12.46 mg/kg dry weight (d.w.)
	Soil	2.31 mg/kg dry weight (d.w.)
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
Calcium dodecylbenzenesulpho- nate	Fresh water	0.28 mg/l
	Freshwater - intermittent	0.654 mg/l
	Marine water	0.458 mg/l
	Sewage treatment plant	50 mg/l
	Fresh water sediment	27.5 mg/kg dry weight (d.w.)
	Marine sediment	2.75 mg/kg dry weight (d.w.)

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weight (d.w.)

20 mg/kg food

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-		Air	10 mg/m3 25 mg/kg dry

Oral

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.
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. Equipment should conform to BS EN 14387
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

Appearance	: liquid
Colour	: yellow
Odour	: No data available
Odour Threshold	: No data available
pН	: 4 - 5

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	Melting	point/freezing point	:	No data available	e
		oiling point and boiling	:	No data available	9
	range Flash p	oint	:	45 - 51 °C	
	Evaporation rate		:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	e
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
		er solubility n coefficient: n-	:	soluble Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other in	formation			
	Flamma	ability (liquids)	:	No data available	9
	Molecu	lar weight	:	No data available	9
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

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10.2 Cher	nical stability			
Stable	e under normal conditior	ıs.		
10.3 Poss	bility of hazardous rea	acti	ons	
Haza	rdous reactions	:		id and vapour. orm explosive mixture with air. strong oxidizing agents.
10.4 Cond	litions to avoid			
Cond	itions to avoid	:	Heat, flames ar	nd sparks.
10.5 Incor	mpatible materials			
Mater	rials to avoid	:	Oxidizing agen	IS .
	rdous decomposition			
SECTION	N 11: Toxicological in	offor	mation	
11.1 Infor	mation on toxicologica	ıl ef	iects	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity	of u	ith akin ar if inha	od
	ful if swallowed, in conta			eu.
Prod				timeter 1 201 mailer
Acute	e oral toxicity	:	Method: Calcula	timate: 1,291 mg/kg tion method
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Calcula	4 h e: vapour
Acute	e dermal toxicity	:	Acute toxicity es Method: Calcula	timate: 1,347 mg/kg tion method
Com	ponents:			
Xyler	ne:			
	e oral toxicity	:	LD50 (Rat): 3,52 Method: Directiv	23 mg/kg re 67/548/EEC, Annex V, B.1.
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Expert Remarks: Based	4 h e: vapour

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Acute	dermal toxicity	:	Method: Expert ju	mate: 1,100 mg/kg Idgement on national or regional regulation.
Calci	um dodecylbenzenesu	lpho	onate:	
Acute	oral toxicity	:	LD50 (Rat): > 500 Method: OECD To Remarks: Based	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Method: OECD T Remarks: Based	
Nonv	Iphenol, ethoxylated:			
	oral toxicity	:	LD50 (Rat): 500 -	2,000 mg/kg
ll delta	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 m Exposure time: 2 Test atmosphere:	ng/l h
Acute	dermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
			LD50 (Rat): > 800) mg/kg
	toxicity (other routes of histration)	:	LD50 (Rat): 2.5 m 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	
Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity	

Skin corrosion/irritation

Causes skin irritation.

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Comp	oonents:		
Xylen	e:		
Speci		: Rabbit	
Resul	t	: Skin irritation	
Calci	um dodecylbenzenes	sulphonate:	
Speci		: Rabbit	
Metho		: OECD Test C	Guideline 404
Resul		: Skin irritation	a from cimilar motoriala
Rema	IſKS	: Based on dat	a from similar materials
	Iphenol, ethoxylated	:	
Speci		: Rabbit	
Metho		: OECD Test G	
Resul	t	: No skin irritat	on
	nethrin (ISO):		
Speci		: Rabbit	
Resul	t	: No skin irritat	on
2,6-Di	i-tert-butyl-p-cresol:		
Speci		: Rabbit	
Metho		: OECD Test G	
Resul		: No skin irritat	
Rema	ITKS	: Based on dat	a from similar materials
Serio	us eye damage/eye i	rritation	
Cause	es serious eye damag	е.	
<u>Comp</u>	oonents:		
Xylen	e:		
Speci	es	: Rabbit	
Resul	t	: Irritation to ey	es, reversing within 21 days
Calci	um dodecylbenzenes	sulphonate:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test G	
Resul	t	: Irreversible et	
Rema	irks	: Based on dat	a from similar materials
Nony	Iphenol, ethoxylated	:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test G	
Resul	t	: Irreversible et	fects on the eye
deltar	nethrin (ISO):		

deltamethrin (ISO):

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Speci Resu		: Rabbit : Moderate eye irritation				
2,6-D Speci Metho		: Rabbit : OECD Test Guideline 405				
Resul	lt	 No eye irritation Based on data from similar materials 				
-	iratory or skin sensit	isation				
-	sensitisation	agation				
-	cause an allergic skin r					
-	iratory sensitisation lassified based on ava	lable information				
	oonents:					
Xyler						
Test	I ype sure routes	: Local lymph node assay (LLNA) : Skin contact				
Speci		: Mouse				
Resu		: negative				
Calci	um dodecylbenzenes	ulphonate:				
Test	-	: Maximisation Test				
	sure routes	: Skin contact				
Speci	es	: Guinea pig				
Metho	bd	: OECD Test Guideline 406				
Resu		: negative				
Rema	arks	: Based on data from similar materials				
Nony	Iphenol, ethoxylated					
Test		: Maximisation Test				
	sure routes	: Skin contact				
Speci		: Guinea pig				
Resul Rema	-	negativeBased on data from similar materials				
delta	methrin (ISO):					
Test		: Maximisation Test				
	sure routes	: Dermal				
Speci		: Guinea pig				
Resu		: negative				
Test	Гуре	: Human repeat insult patch test (HRIPT)				
Expos	sure routes	: Dermal				
Speci		: Humans				
Resu	It	: positive				

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

Test Type	: Human repeat insult patch test (HRIPT)
Exposure routes	: Skin contact
Species	: Humans
Test Type Exposure routes Species Result	: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Xylene:

:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
	Test Type: In vitro mammalian cell gene mutation test Result: negative
	Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative
:	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Skin contact Result: negative
	:

Calcium dodecylbenzenesulphonate:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo :	Remarks: Based on data from similar materials Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative

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			Remarks: Based	on data from similar materials
	Iphenol, ethoxylated: toxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
II delta	methrin (ISO):			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA I Test system: Esc Result: negative	
				nosomal aberration nese hamster ovary cells
				o mammalian cell gene mutation test nese hamster lung cells DAEL: 20 mg/kg
Geno	toxicity in vivo	:	Test Type: Micron Species: Mouse Application Route Result: negative	
			Test Type: domin Species: Mouse Application Route Result: negative	
			Test Type: sister Species: Mouse Cell type: Bone m Application Route Result: negative	
11 2.6-D	i-tert-butyl-p-cresol:			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitre Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mutag	genicity (in vivo mammalian bone-marrow

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	cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative						
	inogenicity lassified based on avai	lable information.					
Com	ponents:						
Xyleı	ne:						
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 103 weeks : negative					
delta	methrin (ISO):						
Expo NOA LOAE Resu	cation Route sure time EL EL	 Mouse, male and oral (feed) 104 weeks 8 mg/kg body we 4 mg/kg body we positive Lymph nodes 	eight				
Spec Appli Expo Resu	cation Route sure time	: Rat, male and fe : oral (feed) : 2 Years : negative	emale				
Spec Appli Expo NOA Resu	cation Route sure time EL	 Dog, male and fe oral (feed) 2 Years 1 mg/kg body we negative 					
2,6-D)i-tert-butyl-p-cresol:						
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 22 Months : negative					
•	oductive toxicity ected of damaging ferti	lity. Suspected of dama	aging the unborn child.				
Com	ponents:						
Xyleı	ne:						
Effec	ts on fertility	Species: Rat	generation reproduction toxicity study e: inhalation (vapour)				

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I		Result: negat	ive			
Effec ment	ts on foetal develop-	Species: Rat Application R	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative			
Calci	ium dodecylbenzenes	ulphonate:				
Effec	ts on fertility	reproduction/ Species: Rat Application R Method: OEC Result: negat	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ive sed on data from similar materials			
Effec ment	ts on foetal develop-	reproduction/ Species: Rat Application R Method: OEC Result: negat	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ive sed on data from similar materials			
delta	methrin (ISO):					
	ts on fertility	Species: Rat Application R Early Embryo weight Symptoms: N	nree-generation reproduction toxicity study oute: oral (feed) nic Development: NOAEL: 50 mg/kg body o effects on fertility, Embryo-foetal toxicity nificant toxicity observed in testing			
		Species: Rat Application R Early Embryo weight	vo-generation reproduction toxicity study oute: Oral nic Development: LOAEL: 84 - 149 mg/kg body o effects on fertility, Embryo-foetal toxicity			
			male oute: Oral EL: 1 mg/kg body weight ffects on fertility			
Effec ment	ts on foetal develop-	Development				

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		Remarks: Mater	nal toxicity observed.
			female
•	:		of adverse effects on sexual function and n development, based on animal experiments.
i-tert-butyl-p-cresol:			
ts on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	•
	:	Test Type: Emb Species: Rat Application Rout Result: negative	
cause respiratory irritati	ion.		
ponents:			
	:	May cause resp	iratory irritation.
• •	:	May cause resp	iratory irritation.
• •		ough prolonged o	r repeated exposure.
ponents:			
sure routes et Organs	:	Shown to produce	
	Γ - single exposure cause respiratory irritat ponents: ne: ssment methrin (ISO): ssment Γ - repeated exposure	<pre>nent i-tert-butyl-p-cresol: ts on fertility ts on foetal develop- f - single exposure cause respiratory irritation. ponents: ne: ssment f - repeated exposure cause damage to organs thr ponents: ne: sure routes et Organs</pre>	Test Type: Developmental Symptoms: No end Symptoms: No end Test Type: Developmental Symptoms: No end Species: Rabbit Application Rout Developmental Symptoms: No end Symptoms: No end oductive toxicity - As- intert-butyl-p-cresol: ts on fertility ts on fertility ts on foetal develop- ts on foetal develop- : Test Type: Type: Two-Species: Rat Application Rout Result: negative ts on foetal develop- : Test Type: Emb Species: Rat Application Rout Result: negative ts on foetal develop- : Test Type: Emb Species: Rat Application Rout Result: negative f - single exposure cause respiratory irritation. ponents: ne: ssment : cause damage to organs through prolonged or ponents: ne: sure routes : sure routes :

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Calci	um dodecylbenzene	sulphonate:			
Asse	ssment	: No significant h tions of 100 mg	ealth effects observed in animals at concentra /kg bw or less.		
delta	methrin (ISO):				
Targe	sure routes et Organs ssment		Central nervous system, Immune system Causes damage to organs through prolonged or repeated		
Targe	sure routes et Organs ssment	: Central nervous	inhalation (dust/mist/fume) Central nervous system Causes damage to organs through prolonged or repeated exposure.		
	i-tert-butyl-p-cresol: ssment		ealth effects observed in animals at concentra		
-	eated dose toxicity ponents:				
Xyler					
Speci LOAE Appli	ies EL cation Route sure time	: Rat : > 0.2 - 1 mg/l : inhalation (vapo : 13 Weeks : Based on data	our) from similar materials		
Speci LOAE Applie Expos		: Rat : 150 mg/kg : Ingestion : 90 Days			
Calci	um dodecylbenzene	sulphonate:			
Speci LOAE Applie	ies EL cation Route sure time od	: Rat : > 200 mg/kg : Ingestion : 6 - 7 Weeks : OECD Test Gu	ideline 422 from similar materials		
Speci NOAI Applie Expo Metho Rema	EL cation Route sure time od	 Rabbit > 100 mg/kg Skin contact 28 Days OECD Test Guideline 410 Based on data from similar materials 			

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delta	methrin (ISO):		
Expos	EL EL cation Route sure time ot Organs	: Rat, male and t : 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous syster : hyperexcitabilit	n
	L cation Route sure time	: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation,	
Expos	EL EL cation Route sure time ot Organs	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous syster : Dilatation of the tion	n e pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Expos	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous syster	n
Expos	L cation Route sure time t Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune systen : immune systen	
2.6-D	i-tert-butyl-p-cresol:		
Speci NOAE Applic	es	: Rat : 25 mg/kg : Ingestion : 22 Months	
Aspir	ation toxicity		

May be fatal if swallowed and enters airways.

Components:

Xylene:

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

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Experience with human exposure

Components:

deltamethrin	(ISO):
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Inhalation	 Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling, Palpitation, Blurred 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
Ingestion	: Symptoms: muscle pain, Small pupils

SECTION 12: Ecological information

12.1 Toxicity

Components:

Xylene:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 13.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	NOEC : > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Toxicity to fish (Chronic tox- icity)	:	NOEC: > 0.1 - < 1 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EL10: > 1 - 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Calcium dodecylbenzenesu	lph	onate:

Toxicity to fish	 LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h
	I I I I I I I I I I I I I I I I I I I

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			Remarks: Based	on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 48	agna (Water flea)): > 1 - 10 mg/l 3 h on data from similar materials
Toxi plant	city to algae/aquatic ts	:	100 mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 10 - ? h on data from similar materials
			1 mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 0.1 - 2 h on data from similar materials
Toxi	city to microorganisms	:	Exposure time: 3 Method: OECD Te	
Toxid icity)		:	Exposure time: 28 Species: Pimepha	
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:		d magna (Water flea) on data from similar materials
Non [°]	ylphenol, ethoxylated:			
	city to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
Toxi plan	city to algae/aquatic ts	:	mg/l Exposure time: 72 Method: OECD To	
			Exposure time: 72 Method: OECD Te	
M-Fa	actor (Acute aquatic tox-	:	1	

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j.	city)			
	Coxicity to fish (Chronic city)	tox- :	Exposure time: 10 Species: Oryzias	
a	Toxicity to daphnia and aquatic invertebrates (C c toxicity)		NOEC: > 0.001 - 0.01 mg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp) Remarks: Based on data from similar materials	
	И-Factor (Chronic aqua oxicity)	tic :	10	
C	leltamethrin (ISO):			
	oxicity to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0.00048
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.00039 mg/l 3 h
	oxicity to daphnia and aquatic invertebrates	other :	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0.0037 μg/l β h
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0035 mg/l 3 h
			LC50 (Gammarus Exposure time: 96	fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
	oxicity to algae/aquatic	; :	 EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility 	
	И-Factor (Acute aquatic city)	tox- :	1,000,000	
	oxicity to fish (Chronic city)	tox- :	NOEC: 0.000022 Exposure time: 36 Species: Pimepha	0
			NOEC: 0.000017 Exposure time: 26 Species: Pimepha	
a	Toxicity to daphnia and aquatic invertebrates (C c toxicity)		Exposure time: 21	

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M-Fa	ctor (Chronic aquatic ty)	:	1,000,000	
2,6-D	i-tert-butyl-p-cresol:			
Toxic	ity to fish	:	Exposure time: 96	(zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1.
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
M-Fa icity)	ctor (Acute aquatic tox-	:	1	
Toxic	ity to microorganisms	: EC50 : > 10,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		h
Toxic icity)	ity to fish (Chronic tox-	:	 NOEC: 0.053 mg/l Exposure time: 30 d Species: Oryzias latipes (Japanese medaka) Method: OECD Test Guideline 210 	
Toxic aquat ic tox	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 21	
M-Fa toxicit	ctor (Chronic aquatic ty)	:	1	
12.2 Persi	istence and degradabil	ity		
<u>Com</u>	ponents:			
Xyler	ne:			
	egradability	:		> 70 [°] %

Calcium dodecylbenzenesulphonate:

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Biodeg	Biodegradability		Result: Readily bi Remarks: Based	iodegradable. on data from similar materials
Nonyl	phenol, ethoxylated:			
Biodeg	gradability	:	: Result: Not readily biodegradable. Remarks: Based on data from similar materials	
deltan	nethrin (ISO):			
Stabili	ty in water	:	Hydrolysis: 0 %(30 d)	
2,6-Di	-tert-butyl-p-cresol:			
Biodeg	gradability	:	Result: Not readily biodegradable. Biodegradation: 4.5 % Exposure time: 28 d Method: OECD Test Guideline 301C	
12.3 Bioac	cumulative potential			
<u>Comp</u>	onents:			
Xylen	e:			
	on coefficient: n- ol/water	:	log Pow: 3.16 Remarks: Calcula	ation
Calciu	ım dodecylbenzenesu	lph	onate:	
Bioaco	cumulation	:		factor (BCF): < 500 on data from similar materials
	on coefficient: n- ol/water	:	log Pow: 4.77 Remarks: Calcula	ation
Nonyl	phenol, ethoxylated:			
Partitio	on coefficient: n- bl/water	:	log Pow: 4.48	
deltan	nethrin (ISO):			
Bioaco	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,800
Partitio	on coefficient: n- ol/water	:	: log Pow: 4.6	
2,6-Di	-tert-butyl-p-cresol:			
Bioaco	cumulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1,800
	on coefficient: n- ol/water	:	log Pow: 5.1	

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12.4 Mobility in soil

Components:

deltamethrin (ISO):

Distribution among environ- : log Koc: 7.2 mental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : 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.

12.6 Other adverse effects

Product:	
Endocrine disrupting poten- : tial	This substance/mixture contains components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
Components:	
Nonylphenol, ethoxylated:	
Endocrine disrupting poten- : tial	The substance is considered to have endocrine disrupting properties according to UK REACH Article 57(f) for environ- ment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number

ADN

: UN 1993

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ADR		:	UN 1993		
RID		•	UN 1993		
IMDG		:	UN 1993		
		·	UN 1993		
14.2 UN pr	oper shipping name				
ADN		:	FLAMMABLE L (Xylene)	.IQUID, N.O.S.	
ADR		:	FLAMMABLE LIQUID, N.O.S. (Xylene)		
RID		:			
IMDG		:	(Xylene) FLAMMABLE LIQUID, N.O.S. (Xylene, deltamethrin (ISO), 2,6-Di-tert-butyl-p-cresol)		
ΙΑΤΑ		:	Flammable liqu (Xylene)	id, 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				
ADN					
	ng group	:	Ш		
Classi	fication Code	:	F1		
	d Identification Number	:	30		
Labels	5	:	3		
ADR Dookin					
	ng group fication Code	:	III F1		
	d Identification Number	÷	30		
Labels		:	3		
Tunne	l restriction code	:	(D/E)		
RID					
	ng group	:			
	fication Code	:	F1		
Hazaro	d Identification Number	:	30 3		
IMDG		•	-		
	ng group	•	Ш		

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	Labels EmS C		:	3 F-E, <u>S-E</u>	
		Cargo) g instruction (cargo	:	366	
	Packin	g instruction (LQ) g group	:	Y344 III Flammable Liquid	ls
		Passenger) g instruction (passen-	:	355	
	Packin	g instruction (LQ) g group	:	Y344 III Flammable Liquid	ds
14.	14.5 Environmental hazards			·	
	ADN Enviroi	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviroi	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
14.	14.6 Special precautions for use		ər		
	The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and var iations in regional or country regulations.				ial as it is described within this Safety Data

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH List of restrictions (Annex 17)	
	Number on list 46a.: Nonylphenol, ethoxylated
	Number on list 46b: Nonylphenol, ethoxylated
UK REACH List of restrictions (Annex 17)	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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				here according to in the regulation, use/purpose or to restriction. Please tions in correspond determine wheth cable to the place not.	mixture(s) are listed o their appearance , irrespective of their he conditions of the se refer to the condi- onding Regulation to her an entry is appli- ing on the market or
	REACH Candidate list	of substances of very hig risation	h :	Nonylphenol, eth	noxylated
Th	e Persistent Organic Po gulation (EU) 2019/102	Ilutants Regulations (retain 1 as amended for Great E		Not applicable	
	gulation (EC) on substa	nces that deplete the ozo	ine :	Not applicable	
UŔ		nces subject to authorisati	on :	Nonylphenol, eth	noxylated
ĞE Infe	B Export and import of ha			Nonylphenol, eth	noxylated
Co	ntrol of Major Accident I	Hazards Regulations 201	5 (COMA		
P5	с	FLAMMABLE LIC	QUIDS	Quantity 1 5,000 t	Quantity 2 50,000 t
E1		ENVIRONMENT/ HAZARDS	AL	100 t	200 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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.

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Full	text of H-Statements						
H22	26	: Flammable lig	uid and vapour.				
H30		: Toxic if swalld					
H30			Harmful if swallowed.				
H30			swallowed and enters airways.				
H31			ntact with skin.				
H31		: Causes skin i					
H31			allergic skin reaction.				
H31			us eye damage.				
H31			us eye irritation.				
H33		: Toxic if inhale					
H33		: Harmful if inha					
H33			spiratory irritation.				
H36			damaging fertility. Suspected of damaging the				
H37	2		ge to organs through prolonged or repeated naled.				
H37	2		ge to organs through prolonged or repeated				
H37	'3		mage to organs through prolonged or repeated				
H4C)O	: Very toxic to a	aquatic life				
H41			aquatic life with long lasting effects.				
H41			uatic life with long lasting effects.				
	text of other abbrevia						
	te Tox.	: Acute toxicity					
	atic Acute		cute) aquatic hazard				
	atic Chronic		ironic) aquatic hazard				
	. Tox.	: Aspiration haz					
	Dam.	: Serious eye d					
	Irrit.	: Eye irritation	amage				
	n. Liq.	: Flammable lig	uids				
Rep	•	: Reproductive					
•	n Irrit.	: Skin irritation					
	n Sens.	: Skin sensitisa	tion				
	DT RE		t organ toxicity - repeated exposure				
	DT SE		t organ toxicity - single exposure				
	0/39/EC		mission Directive 2000/39/EC establishing a first				
200	0,00,20		e occupational exposure limit values				
GB	EH40		EL - Workplace Exposure Limits				
	EH40 BAT		I monitoring guidance values				
	2000/39/EC / TWA : Limit Value - eight hours						
	0/39/EC / STEL	: Short term ex					
	EH40 / TWA		posure limit (8-hour TWA reference period)				
	EH40 / STEL		posure limit (15-minute reference period)				
			rnational Carriage of Dangerous Goods by Inland				

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

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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 of the mixture:		Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Calculation method
Acute Tox. 4	H332	Calculation method
Acute Tox. 4	H312	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361fd	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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