

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.0	13.09.2024	2656223-00017	Date of first issue: 29.03.2018

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

1.1	Product identifier		
	Trade name	:	Deltamethrin (2.5%) Formulation
1.2	Relevant identified uses of the	ne 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
			Kilsheelan
			Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	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)

	,
Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 1B	H340: May cause genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the un-
	born child.
Specific target organ toxicity - single ex-	H336: May cause drowsiness or dizziness.
posure, Category 3	
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-
exposure, Category 2	longed or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air-
	ways.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.



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egory 1 effects. 2 Label elements Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms : Danger Hazard statements : Hazard Statements : Preceautionary statements : Preceautionary statements : Pation : P	/ersion 5.0	Revision Date: 13.09.2024	SDS Numb 2656223-00	
Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms	Long	-term (chronic) aquation	c hazard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
Hazard pictograms :	2.2 Label	elements		
Signal word : Danger Hazard statements : H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause genetic defects. H350 May cause drowsiness or dizziness. H340 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolong or repeated exposure. H410 Very toxic to aquatic life with long lasting effect Precautionary statements : P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, og flames and other ignition sources. No smoking P273 P203 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ ey protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiou with water for several minutes. Remove conta lenses, if present and easy to do. Continue rin ing. Immediately call a POISON CENTER/ do	Labe	lling (REGULATION	(EC) No 1272/2	2008)
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H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolong or repeated exposure. H410 Very toxic to aquatic life with long lasting effect Precautionary statements : P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, of flames and other ignition sources. No smoking P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ ey protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiou with water for several minutes. Remove conta lenses, if present and easy to do. Continue rin ing. Immediately call a POISON CENTER/ door	Haza	rd statements	H304	May be fatal if swallowed and enters airways.
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with water for several minutes. Remove conta lenses, if present and easy to do. Continue rin ing. Immediately call a POISON CENTER/ do			Respons	se:
			P305 + F	P351 + P338 + P310 IF IN EYES: Rinse cautiousl with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins ing. Immediately call a POISON CENTER/ doct
			P391	
Hazardous components which must 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.



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2.3 Other hazards

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

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 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.	Classification	Concentration (% w/w)
	Registration number		
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, ethox- ylated	127087-87-0	Repr. 2; H361 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	Acute Tox. 3; H301 Acute Tox. 3; H301	>= 2.5 - < 3
	607-319-00-X	Eye Irrit. 2; H319 Skin Sens. 1A; H317	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			Repr. 2; H361fd STOT SE 3; H335 STOT RE 1; H372 (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.



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		Was	medical atter sh clothing be roughly clean		
In case of eye contact		for a If ea	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.		
If swallowed : If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre imme Rinse mouth thoroughly with water. Never give anything by mouth to an unconscio			s have person lean forward. or poison control centre immediately. oughly with water.		
4.2 Most i	mportant symptoms a	nd effect	s, both acute	e and delayed	
Risks :		Cau May Cau May May Sus May	ses skin irrita cause an all ses serious e cause drows cause genet cause cance pected of dan	ergic skin reaction. eye damage. siness or dizziness. ic defects.	
		Pyre	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.		
4.3 Indica	tion of any immediate	medical	attention and	d special treatment needed	
Treat	ment	: Trea	at symptomati	ically and supportively.	
SECTION	1 5: Firefighting mea	sures			
5.1 Extinc	uishing media				
Suitable extinguishing media :		Alco Carl	er spray hol-resistant oon dioxide ((

Unsuitable extinguishing	:	High volume water jet
media		

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	:	Do not use a solid water stream as it may scatter and spread
fighting		fire.
		Flash back possible over considerable distance.

Dry chemical



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	Hazardous combustion prod- ucts	:		,
5.3	Advice for firefighters			
	Special protective equipment for firefighters			e, wear self-contained breathing apparatus. tective equipment.
	Specific extinguishing meth- ods	:	cumstances and t Use water spray t	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

on i oroonal procaationo, procoo		s equipment and emergency proceduree
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	:	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

Prevent spreading over a wide area (e.g. by containment or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Non-sparki	ng tools should be used.
	Soak up wi	th inert absorbent material.
	Suppress (spray jet.	knock down) gases/vapours/mists with a water
	ment to kee be pumped	pills, provide dyking or other appropriate contain- ep material from spreading. If dyked material can I, store recovered material in appropriate container. emaining materials from spill with suitable absor-
	bent.	
	posal of thi	tional regulations may apply to releases and dis- s material, as well as those materials and items n the cleanup of releases. You will need to deter-



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		Sections 13	egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
	ence to other sections ons: 7, 8, 11, 12 and 13.		
SECTION	N 7: Handling and st	orage	
7.1 Preca	utions for safe handlir	ng	
Tech	nical measures		ring measures under EXPOSURE /PERSONAL PROTECTION section.
Loca	I/Total ventilation	: If sufficient v ventilation.	entilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get of Do not breat Do not swall Do not get in Wash skin th Handle in ac practice, bas sessment Non-sparking Keep contair Keep away f other ignition Take precau Do not eat, co	eyes. horoughly after handling. cordance with good industrial hygiene and safety eed on the results of the workplace exposure as- g tools should be used. her tightly closed. rom heat, hot surfaces, sparks, open flames and a sources. No smoking. tionary measures against static discharges. Irink or smoke when using this product. prevent spills, waste and minimize release to the
Hygie	ene measures	: If exposure t flushing syst place. When work clothing Wash contar The effective engineering appropriate o industrial hys	o chemical is likely during typical use, provide eye ems and safety showers close to the working using do not eat, drink or smoke. Contaminated g should not be allowed out of the workplace. ninated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.
7.2 Condi	tions for safe storage	, including any in	compatibilities
	irements for storage and containers	tightly closed accordance	perly labelled containers. Store locked up. Keep d. Keep in a cool, well-ventilated place. Store in with the particular national regulations. Keep eat and sources of ignition.
Advid	ce on common storage	Strong oxidiz	with the following product types: zing agents

Self-reactive substances and mixtures



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		Substances and flammable gases Explosives Gases	s s s stances and mixtures 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

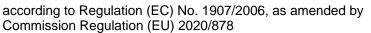
8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal	
	Further information: DSEN, Skin				
		Wipe limit	100 µg/100 cm²	Internal	
2,6-Di-tert-butyl-p- cresol	128-37-0	OELV - 8 hrs (TWA)	2 mg/m3	IE OEL	

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

Substance 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
Benzenesulfonic acid, C10-13-alkyl derivs., calcium 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
Polyethylene glycol castor oil	Workers	Inhalation	Long-term systemic effects	16.4 mg/m3





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		Workers	Skin conta	act	Long-term systemic effects	4.67 mg/kg bw/day
		Consumers	Inhalation	l	Long-term systemic effects	2.9 mg/m3
		Consumers	Skin conta	act	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.)
	Marine sediment	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 - intermittent	0.0661 mg/l
	Marine water	0.000 mg/l
	Marine water - intermittent	0.00661 mg/l
	Fresh water sediment	0.0129 mg/kg dry
		weight (d.w.)
	Marine sediment	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).

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	nimize open handling. e explosion-proof electrica	l, ver	ntilating and lighting	g equipment.
Pe	rsonal protective equipm	nent		
Ey	e/face protection	:	If the work enviror mists or aerosols, Wear a faceshield	es with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. I or other full face protection if there is a contact to the face with dusts, mists, or
На	nd protection			
	Material	:	Chemical-resistan	t gloves
	Remarks	:		ploving. Take note that the product is flam-
Sk	in and body protection	:	Work uniform or la Additional body ga task being perform posable suits) to a	aboratory coat. arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially
Re	spiratory protection	:	If adequate local e sure assessment ommended guidel	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection. I conform to I.S. EN 14387
	Filter type	:		lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	< -5 °C
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available

Lower explosion limit / Lower : No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	flamma	ability limit			
	Flash p	point	:	40 °C	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	4 - 5	
	Viscos Viso	ity cosity, kinematic	:	No data available	9
	Solubil Wa	ity(ies) ter solubility	:	partly miscible	
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Vapou	r pressure	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	ý	:	0.909 - 0.927 g/c	m³ (20 °C)
I	Relativ	e vapour density	:	No data available	9
		e characteristics ticle size	:	Not applicable	
9.2		nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapoi	ration rate	:	No data available	9
	Molecu	ılar weight	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Flammable liquid and vapour.



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				m explosive mixture with air. trong oxidizing agents.
0.4 Cond	litions to avoid			
Cond	itions to avoid	:	Heat, flames and	d sparks.
	mpatible materials			
Mater	rials to avoid	:	Oxidizing agents	
	rdous decomposition			
INO Na	azardous decomposition	pro	ducts are known.	
SECTION	N 11: Toxicological in	ofr	mation	
			-	ulation (EC) No 1272/2008
	nation on likely routes of		Inhalation Skin contact	
expos	Sule		Ingestion	
			Eye contact	
Acute	e toxicity			
Not c	lassified based on availa	able	information.	
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity esti Method: Calculati	imate: > 2,000 mg/kg ion method
Acute	inhalation toxicity	:	Acute toxicity esti	imate: > 5 mg/l
			Exposure time: 4	h
			Test atmosphere: Method: Calculati	
			Method. Calculati	
Com	ponents:			
Solve	ent naphtha (petroleum	n), li	ght aromatic:	
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity		LC50 (Rat): > 5.6	1 mg/l
		-	Exposure time: 4	h
			Test atmosphere:	: vapour
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
Benz	enesulfonic acid, C10-	13-a	ılkyl derivs., calci	um salts:
Acute	e oral toxicity	:	LD50 (Rat): 4,445	5 mg/kg
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 on data from similar materials
			Remarks: Based	on data from similar materials



Deltamethrin (2.5%) Formulation

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4-Noi	nylphenol, branched, e	tho	cylated:		
Acute	e oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg	
delta	methrin (ISO):				
	e 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 mg/l Exposure time: 2 h Test atmosphere: dust/mist		
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 m Application Route		
			LD50 (Mouse): 10 Application Route		
11 2,6-D	i-tert-butyl-p-cresol:				
	oral toxicity	:		00 mg/kg rest Guideline 401	
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute derma	
Skin	corrosion/irritation				
	es skin irritation.				
<u>Com</u>	ponents:				
	ent naphtha (petroleum), lig			
Speci Metho Resu	bc	:	Rabbit OECD Test Guide Skin irritation	eline 404	
Benz	enesulfonic acid, C10-	13-a	lkyl derivs., calci	um salts:	
Speci		: :	Rabbit		
Metho Resu	bd	: OECD Test Guideline 404 : Skin irritation			

4-Nonylphenol, branched, ethoxylated:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Speci Metho Resu Rema	od It	 Rabbit OECD Test Guideline 404 No skin irritation Based on data from similar materials 			
	methrin (ISO):				
Speci Resu		: Rabbit : No skin irritation			
2,6-D	i-tert-butyl-p-cresol:				
Speci	es	: Rabbit			
Metho		: OECD Test Guideline 404			
Resu Rema		 No skin irritation Based on data from similar materials 			
Rema	arks	. Dased on data from similar materials			
Cause	us eye damage/eye ir es serious eye damage ponents:				
Solve	ent naphtha (petroleur	n). light aromatic:			
Speci		: Rabbit			
Metho		: OECD Test Guideline 405			
Resu	lt	: No eye irritation			
Bonz	onosulfonic acid C10	-13-alkyl derivs., calcium salts:			
Speci		: Rabbit			
Metho		: OECD Test Guideline 405			
Resu		: Irreversible effects on the eye			
	nylphenol, branched,	-			
Speci		: Rabbit			
Metho Resu		: OECD Test Guideline 405 : No eye irritation			
Rema		: Based on data from similar materials			
delta	methrin (ISO):				
Speci		: Rabbit			
Resu		: Moderate eye irritation			
2,6-D	i-tert-butyl-p-cresol:				
Speci	es	: Rabbit			
Metho		: OECD Test Guideline 405			
Resu		: No eye irritation			
Rema	arks	: Based on data from similar materials			



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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light aromatic:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Test Type	: Magnusson-Kligman-Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Test Type Exposure routes Species Method Remarks	: Based on data from similar materials

4-Nonylphenol, branched, ethoxylated:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative
Test Type Exposure routes Species Result Remarks	: Based on data from similar materials

deltamethrin (ISO):

Test Type Exposure routes Species Result	:	Maximisation Test Dermal Guinea pig negative
Test Type Exposure routes Species Result	:	Human repeat insult patch test (HRIPT) Dermal Humans positive

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

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

Germ cell mutagenicity

May cause genetic defects.



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<u>Com</u>	oonents:		
Solve	ent naphtha (petroleun	n). light aromatic:	
	toxicity in vitro		terial reverse mutation assay (AMES) e
		Test Type: In vi Result: positive	tro mammalian cell gene mutation test
Geno	toxicity in vivo	gonia Species: Mouse	ite: Intraperitoneal injection
Germ sessn	cell mutagenicity- As- nent	: Positive result(s tests in mamma	s) from in vivo heritable germ cell mutagenicity als
Benz	enesulfonic acid, C10-	13-alkyl derivs., cal	cium salts:
Geno	toxicity in vitro	Method: Directi Result: negative	
		Remarks: Base	d on data from similar materials
4-Noi	nylphenol, branched, e	ethoxylated:	
Geno	toxicity in vitro	Method: OECD Result: negative	
		Remarks: Base	d on data from similar materials
			omosome aberration test in vitro Test Guideline 473
			d on data from similar materials
		Method: OECD	tro mammalian cell gene mutation test Test Guideline 476
		Result: negative Remarks: Base	e d on data from similar materials
delta	methrin (ISO):		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: DN/ Test system: Est Result: negative	scherichia coli
			omosomal aberration hinese hamster ovary cells e

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			Test system: Ch	ro mammalian cell gene mutation test inese hamster lung cells _OAEL: 20 mg/kg
Genc	Genotoxicity in vivo		Test Type: Micro Species: Mouse Application Rou Result: negative	te: Oral
			Test Type: domi Species: Mouse Application Rou Result: negative	te: Oral
			Test Type: siste Species: Mouse Cell type: Bone Application Rou Result: negative	marrow te: Oral
11 2,6-D)i-tert-butyl-p-cresol:			
	ptoxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vit Result: negative	ro mammalian cell gene mutation test
			Test Type: Chro Result: negative	mosome aberration test in vitro
Genc	otoxicity in vivo	:	••	
	inogenicity			
-	cause cancer. ponents:			
	ent naphtha (petroleu	m) li	nht aromatic:	
Spec Appli	ies cation Route sure time	,, II : : : :	Mouse Skin contact 2 Years positive	
Carci ment	inogenicity - Assess-	:	Sufficient evider	nce of carcinogenicity in animal experiments

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delta	methrin (ISO):					
Speci Applic Expos NOAE LOAE Resu	Species Application Route Exposure time NOAEL LOAEL Result Target Organs		 Mouse, male and female oral (feed) 104 weeks 8 mg/kg body weight 4 mg/kg body weight positive Lymph nodes 			
Applio Expos	Species Application Route Exposure time Result		Rat, male and female oral (feed) 2 Years negative			
Speci Applio Expos NOAE Resu	cation Route sure time EL	: Dog, male and : oral (feed) : 2 Years : 1 mg/kg body : negative				
Speci Applic	cation Route sure time	: Rat : Ingestion : 22 Months : negative				
Suspe <u>Com</u>	oductive toxicity ected of damaging fert ponents:		ild.			
	ent naphtha (petroleu is on fertility	: Test Type: Re test Species: Rat	eproduction/Developmental toxicity screening oute: inhalation (vapour) ve			
Effect ment	ts on foetal develop-	Species: Rat	nbryo-foetal development oute: inhalation (vapour) ve			
4-Noi	nylphenol, branched,	ethoxylated:				
Repro sessn	oductive toxicity - As- nent		ce of adverse effects on sexual function and on development, based on animal experiments.			
delta	methrin (ISO):					
	ts on fertility	: Test Type: Th Species: Rat	ree-generation reproduction toxicity study			

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		Early Embryor weight Symptoms: No	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 Ro Early Embryon weight	ro-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 fects on fertility
Effect ment	s on foetal develop-	Developmenta Result: Skelet	
		Developmenta	
Repro sessm	ductive toxicity - As- nent		e of adverse effects on sexual function and on development, based on animal experiments.
2,6-Di	-tert-butyl-p-cresol:		
Effect	s on fertility	Species: Rat	ro-generation reproduction toxicity study oute: Ingestion ve
Effect ment	s on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ve



ersion 0	Revision Date: 13.09.2024	SDS Number: 2656223-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
sтот	- single exposure		
May c	ause drowsiness or o	dizziness.	
<u>Comp</u>	onents:		
Solve	nt naphtha (petrole	um), light aromatic:	
Asses			wsiness or dizziness.
deltar	nethrin (ISO):		
Asses	sment	: May cause res	piratory irritation.
STOT	- repeated exposur	e	
May c	ause damage to orga	ans through prolonged	or repeated exposure.
Comp	onents:		
deltar	nethrin (ISO):		
Expos	sure routes	: Ingestion	
	t Organs		s system, Immune system
Asses	sment	exposure.	ge to organs through prolonged or repeated
Expos	sure routes	: inhalation (dus	
	t Organs	: Central nervou	
Asses	sment	: Causes damage exposure.	ge to organs through prolonged or repeated
2,6-Di	-tert-butyl-p-cresol:		
	sment	: No significant l	nealth effects observed in animals at concentra g/kg bw or less.
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
Solve	nt naphtha (petrole	um), light aromatic:	
Specie		: Rat	
LOAE	L ation Route	: 500 mg/kg : Ingestion	
	sure time	: 28 Days	
4-Non	ylphenol, branched	l, ethoxylated:	
	es	: Rat	
Specie		: 150 mg/kg	
LÒAE		1	
LÓAE Applic	ation Route	: Ingestion	
LÓAE Applic	ation Route sure time	: Ingestion : 90 Days : OPPTS 870.31	100

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Deltamethrin (2.5%) Formulation

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Expos	L L ation Route ure time t Organs	: Rat, male and : 1 mg/kg : 2.5 mg/kg : Oral : 13 Weeks : Nervous systel : hyperexcitabilit	m
	L ation Route ure time	: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation,	
Expos	L L ation Route ure time t Organs	 Dog 0.1 mg/kg 1 mg/kg Oral 13 Weeks Nervous system Dilatation of th tion 	m e pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Expos	Ľ	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system	m
Expos	L ation Route ure time t Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune syster : immune syster	
2,6-Di Specie	-tert-butyl-p-cresol:	: Rat	

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

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

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



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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.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

deltamethrin (ISO):

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:

Solvent naphtha (petroleum), light aromatic:

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

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			mg/l Exposure time: 96 Test substance: V Method: OECD Te	Vater Accommodated Fraction
ac	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	Exposure time: 21 Species: Daphnia	magna (Water flea) Vater Accommodated Fraction
B	enzenesulfonic acid, C10-′	13-a	ılkvl derivs calci	um salts:
	oxicity to fish	:	LC50 : > 1 - < 10 Exposure time: 96 Method: OECD Te	mg/l S h
	oxicity to daphnia and other quatic invertebrates	:	Exposure time: 48 Method: OECD Te	
	oxicity to algae/aquatic ants	:	100 mg/l Exposure time: 96	chneriella subcapitata (green algae)): > 10 - 6 h on data from similar materials
			1 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0.1 - 6 h on data from similar materials
	oxicity to fish (Chronic tox- ty)	:		
ac	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:		l d magna (Water flea) on data from similar materials
11 4-	Nonylphenol, branched, e	tho	xvlated:	
	oxicity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials
	oxicity to daphnia and other quatic invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
	oxicity to algae/aquatic ants	:	ErC50 (Selenastro mg/l	um capricornutum (green algae)): > 1 - 10
			23 / 33	

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ersion)	Revision Date: 13.09.2024	-	9S Number: 56223-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
			Exposure time: 72 Method: OECD Te Remarks: Based of	
			Exposure time: 72 Method: OECD Te	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
Toxicit icity)	y to fish (Chronic tox-	:		
	y to daphnia and other c invertebrates (Chron- city)	:		
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
deltan	nethrin (ISO):			
	y to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0.00048 Sh
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.00039 mg/l እ h
	y to daphnia and other cinvertebrates	:	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
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
M-Fac icity)	tor (Acute aquatic tox-	:	1,000,000	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC: 0.000022 Exposure time: 36	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



rsion)	Revision Date: 13.09.2024		9S Number: 56223-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
II			Species: Pimepha	ales promelas (fathead minnow)
			NOEC: 0.000017 Exposure time: 26 Species: Pimepha	
	y to daphnia and other c invertebrates (Chron- ity)		Exposure time: 21	
M-Fact toxicity	or (Chronic aquatic)	:	1,000,000	
2,6-Di-	tert-butyl-p-cresol:			
Toxicity	y to fish	:	Exposure time: 96	o (zebra fish)): > 0.57 mg/l 6 h 67/548/EEC, Annex V, C.1.
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	y to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
M-Fact icity)	or (Acute aquatic tox-	:	1	
Toxicity	y to microorganisms	:	EC50 : > 10,000 r Exposure time: 3 Method: OECD Te	h
Toxicity icity)	y to fish (Chronic tox-	:	NOEC: 0.053 mg/ Exposure time: 30 Species: Oryzias Method: OECD Te) d latipes (Japanese medaka)
	y to daphnia and other c invertebrates (Chron- ity)	:	NOEC: 0.316 mg/ Exposure time: 21 Species: Daphnia	
M-Fact toxicity	or (Chronic aquatic)	:	1	



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12.2 Pers	istence and degradat	oility		
<u>Com</u>	ponents:			
	ent naphtha (petroleu	m), li	-	
Biode	egradability	:	Result: Inherently Biodegradation: S Exposure time: 25	94 %
	enesulfonic acid, C10)-13-a	alkyl derivs., calci	um salts:
Biode	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD To	100 %
	nylphenol, branched,	etho	-	
Biode	egradability	:	Result: Not readily Remarks: Based	y biodegradable. on data from similar materials
delta	methrin (ISO):			
Stabi	lity in water	:	Hydrolysis: 0 %(3	0 d)
2,6-D	i-tert-butyl-p-cresol:			
Biode	egradability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD To	4.5 %
12.3 Bioa	ccumulative potentia	I		
<u>Com</u>	ponents:			
Benz	enesulfonic acid, C10	J-13-a	alkyl derivs., calci	um salts:
	ion coefficient: n- nol/water	:	log Pow: 2.89	
	methrin (ISO):			
Bioad	ccumulation	:	• •	macrochirus (Bluegill sunfish) factor (BCF): 1,800
	ion coefficient: n- nol/water	:	log Pow: 4.6	
2,6-D	i-tert-butyl-p-cresol:			
Bioad	ccumulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1,800
	ion coefficient: n- nol/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 Endocrine disrupting properties

Product:

Assessment

: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Components:

4-Nonylphenol, branched, ethoxylated:				
Assessment :	The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environ- ment.			

12.7 Other adverse effects

No data available

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 handling 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.



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SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3295
ADR	:	UN 3295
RID	:	UN 3295
IMDG	:	UN 3295
ΙΑΤΑ	:	UN 3295
14.2 UN proper shipping name		
ADN	:	HYDROCARBONS, LIQUID, N.O.S.
ADR	:	HYDROCARBONS, LIQUID, N.O.S.
RID	:	HYDROCARBONS, LIQUID, N.O.S.
IMDG	:	HYDROCARBONS, LIQUID, N.O.S.

ΙΑΤΑ

: Hydrocarbons, liquid, n.o.s.

(deltamethrin (ISO), 2,6-Di-tert-butyl-p-cresol)

14.3 Transport hazard class(es)

			Class	Subsidiary risks
	ADN	:	3	
	ADR	:	3	
	RID	:	3	
	IMDG	:	3	
	ΙΑΤΑ	:	3	
14.4	Packing group			
	ADN Packing group Classification Code Hazard Identification Number Labels	-	III F1 30 3	
	ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		III F1 30 3 (D/E)	
	RID Packing group Classification Code Hazard Identification Number Labels	:	III F1 30 3	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Labe	ing group	: :	III 3 F-E, S-D	
Pack aircra Pack	ing instruction (LQ) ing group	:	366 Y344 III Flammable Liquid	ds
Pack ger a Pack	(Passenger) ing instruction (passen- ircraft) ing instruction (LQ) ing group Is	:	355 Y344 III Flammable Liquid	ds
14.5 Envi	ronmental hazards			
ADR	onmentally hazardous	:	yes	
	onmentally hazardous	:	yes	
RID Envir	onmentally hazardous	:	yes	
	e pollutant	:	yes	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks	: Not applicable for product as supplied.
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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Restrictions on the manufacture, placing on		
the market and use of certain dangerous substances,		Number on list 28: Solvent naphtha
mixtures and articles (Annex XVII)		(petroleum), light aromatic

Number on list 29: Solvent naphtha

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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II				(petroleum), ligh	nt aromatic
				Number on list 4 branched, etho	46a.: 4-Nonylphenol kylated
	CH . Destrictions on th	o monufacturo, placing	op	Number on list 4 branched, etho	46b: 4-Nonylphenol, kylated
the m		e manufacture, placing in dangerous substance x XVII)			75: If you intend to t as tattoo ink, pleas ndor.
REA	CH - Candidate List of	Substances of Very Hig	τh ·	here according in the regulation use/purpose or restriction. Plea tions in correspondetermine whet cable to the plac not.	mixture(s) are lister to their appearance in, irrespective of the the conditions of the se refer to the condi onding Regulation to her an entry is appli- cing on the market of branched, ethoxylat
	ern for Authorisation (jii .	ed	
layer		nces that deplete the oz		Not applicable	
-	lation (EU) 2019/1021 (recast)	on persistent organic p	ollu- :	Not applicable	
Regu ment	lation (EU) No 649/20 and the Council conce	12 of the European Par erning the export and im		4-Nonylphenol, ed	branched, ethoxyla
REAC	of dangerous chemicals REACH - List of substances subject to authorisation (Annex XIV)			4-Nonylphenol, ed	branched, ethoxyla
		8/EU of the European F		t and of the Coun	cil on the control of
E1		ENVIRONMENT HAZARDS	ΓAL	Quantity 1 100 t	Quantity 2 200 t
P5c		FLAMMABLE LI	QUIDS	5,000 t	50,000 t
		8/EU of the European F		it and of the Coun	cil on the control of
major 34	r-accident hazards inv	olving dangerous substa Petroleum produ gasolines and na (b) kerosenes (ii fuels), (c) gas oi ing diesel fuels, heating oils and blending stream heavy fuel oils (d	ucts: (a) aphthas, ncluding j ls (includ- home gas oil s),(d)		25,000 t



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		tive fuels servir purposes and v properties as re flammability an mental hazards products referre points (a) to (d)	vith similar egards d environ- s as the ed to in
Other	regulations:		
	note of Directive 92/85 applicable.	5/EEC regarding mate	rnity protection or stricter national regulations,

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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.

Full text of H-Statements

H226 H301 H304 H315 H317 H318 H319 H331 H335 H336 H340 H350 H361 H361 H361fd H372 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. Causes damage to organs through prolonged or repeated exposure if swallowed
H400	:	exposure if swallowed. Very toxic to aquatic life.



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H410 H411 H412			 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 abbreviations								
	c Acute c Chronic ox. am. it. Liq. rit. ens. RE SE		Specific target org Ireland. List of Ch	c) aquatic hazard age nicity				
IE OEI	_ / OELV - 8 hrs (TWA)	:		osure limit value (8-hour reference period)				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008: CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -



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Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

compile the Safety Data eChem Port	nical data, data from raw material SDSs, OECD al search results and European Chemicals Agen- na.europa.eu/
	1 0

Classification of the mix	cture:	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
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

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. 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.

IE / EN