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

1.1	Product identifier Trade name	:	Flunixin Injection Formulation
1.2	Relevant identified uses of th	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 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)

Acute toxicity, Category 4 Acute toxicity, Category 3 Serious eye damage, Category 1 Specific target organ toxicity - repeated exposure, Category 2 H302: Harmful if swallowed.H331: Toxic if inhaled.H318: Causes serious eye damage.H373: May cause damage to organs through prolonged or repeated exposure.

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)

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Haza	ard pictograms		
Signa	al word	: Danger	
Haza	rd statements	: H302 H318 H331 H373	Harmful if swallowed. Causes serious eye damage. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure.
Preca	autionary statements	: Preventic P264 P270 P280	on: Wash skin thoroughly after handling. Do not eat, drink or smoke when using this prod- uct. Wear eye protection/ face protection.
		Response	e:
		P304 + P3	340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
		P305 + P3	351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins-
		P314	ing. Immediately call a POISON CENTER/ doctor. Get medical advice/ attention if you feel unwell.

Hazardous components which must be listed on the label:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate Phenol

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
1-deoxy-1-(methylamino)-D-glucitol	42461-84-7	Acute Tox. 3; H301	>= 3 - < 10
2-[2-methyl-3-	255-836-0	Acute Tox. 2; H330	
(perfluoromethyl)anilino]nicotinate		Eye Dam. 1; H318	
		STOT SE 3; H335	
		STOT RE 1; H372	

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			(Gastrointestinal tract, Kidney, Blood) Aquatic Chronic 2; H411	
Pheno	D	108-95-2 203-632-7 604-001-00-2	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341 STOT RE 2; H373 (Central nervous system, Kidney, Liver, Skin) Aquatic Chronic 2; H411 specific concentra- tion limit Skin Corr. 1B; H314 >= 3 % Skin Irrit. 2; H315 1 - < 3 % Eye Irrit. 2; H319 1 - < 3 % EUH071 >= 3 %	>= 0.25 - <
2,2'-In	ninodiethanol	111-42-2 203-868-0 603-071-00-1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361 STOT RE 2; H373 (Kidney, Blood, Liver, Nervous sys- tem)	>= 0.1 - <
	m hydroxymethanesulphina		Muta. 2; H341 Repr. 2; H361d	>= 0.1 - <
	ances with a workplace ex			
Propy	lene glycol	57-55-6 200-338-0		>= 20 - < 3

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-

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			vice immediately When symptom advice.	y. s persist or in all cases of doubt seek medical		
Prote	ction of first-aiders	:	and use the reco	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
lf inha	aled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
In cas	se of skin contact	:	of water. Remove contam Get medical atte Wash clothing b			
In cas	se of eye contact	:	for at least 15 m If easy to do, re	ct, immediately flush eyes with plenty of water inutes. move contact lens, if worn. ention immediately.		
lf swa	llowed	:	Get medical atte Rinse mouth the	D NOT induce vomiting. ention. proughly with water. hing by mouth to an unconscious person.		
4 2 Most i	mportant symptoms	and e	ffects both acu	te and delaved		
Risks		:	Harmful if swalld Causes serious Toxic if inhaled.	owed.		
			• •			
4.3 Indica Treat	•	e mec :		nd special treatment needed atically and supportively.		
	I 5: Firefighting me	asur				

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Fluorine compounds Nitrogen oxides (NOx)
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

•	-	-		
Personal precautions	: Use	personal protect	ective equipment.	
	Follo	ow safe handling	ng advice (see section 7) and personal	pro-
	tecti	ve equipment re	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	: Soak up with inert absorbent material. 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.
Advice on safe handling	:	Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated 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.
On all the set of a standard in		undin an annu in a annu a thailtti a a

7.2 Conditions for safe storage, including any incompatibilities

:	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.
:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases
	No data available
	:

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Propylene glycol	57-55-6	TWA (Total va- pour and parti- cles)	150 ppm 474 mg/m3	GB EH40			
		TWA (particles)	10 mg/m3	GB EH40			
1-deoxy-1- (methylamino)-D- glucitol 2-[2- methyl-3- (perfluorome- thyl)anilino]nicotina te	42461-84-7	TWA	40 µg/m3 (OEB 3)	Internal			
	Further inform			-			
		Wipe limit	400 µg/100 cm²	Internal			
Phenol	108-95-2	TWA	2 ppm 7.8 mg/m3	GB EH40			
		ose for which there	bed through the skin. The as are concerns that dermal abs				
	_	STEL	4 ppm 16 mg/m3	GB EH40			
	Further information: Can be absorbed through the skin. The assigned sub-						
		ose for which there	are concerns that dermal ab				
		TWA	2 ppm 8 mg/m3	2009/161/EU			
	Further inform skin, Indicativ	er information: Identifies the possibility of significant Indicative		through the			
		STEL	4 ppm 16 mg/m3	2009/161/EU			
	Further information: Identifies the possibility of significant uptake throug skin, Indicative						

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3





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	2,2'-Im	inodiethanol	Workers	Inhalation	Long-term systemic effects	0.75 mg/m3	
			Workers	Inhalation	Long-term local ef- fects	0.5 mg/m3	
			Workers	Skin conta	ct Long-term systemic effects	0.13 mg/kg bw/day	
			Consumers	Inhalation	Long-term systemic effects	0.125 mg/m3	
			Consumers	Inhalation	Long-term local ef- fects	0.125 mg/m3	
-			Consumers	Skin conta	ct Long-term systemic effects	0.07 mg/kg bw/day	
			Consumers	Ingestion	Long-term systemic effects	0.06 mg/kg bw/day	
	Pheno	I	Workers	Inhalation	Long-term systemic effects	8 mg/m3	
			Workers	Inhalation	Acute local effects	16 mg/m3	
			Workers	Skin conta	ct Long-term systemic effects	1.23 mg/kg bw/day	
			Consumers	Inhalation	Long-term systemic effects	1.32 mg/m3	
			Consumers	Skin conta	ct Long-term systemic effects	0.4 mg/kg bw/day	
			Consumers	Ingestion	Long-term systemic effects	0.4 mg/kg bw/day	

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Marine sediment	57.2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg dry weight (d.w.)
2,2'-Iminodiethanol	Fresh water	0.021 mg/l
	Freshwater - intermittent	0.095 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.096 mg/kg dry weight (d.w.)
	Marine sediment	0.009 mg/kg dry weight (d.w.)
	Soil	1.63 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	1.04 mg/kg food
Phenol	Fresh water	0.0077 mg/l
	Marine water	0.00077 mg/l
	Intermittent use/release	0.031 mg/l

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0.136 mg/kg

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1		Sewage treat	ment plant	2.1 mg/l
		Fresh water sediment 0.0915		0.0915 mg/kg
		Marine sediment 0.00915 m		0.00915 mg/kg

Soil

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.

Personal protective equipment						
Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.				
Hand protection						
Material	:	Chemical-resistant gloves				
Remarks Skin and body protection	:	Consider double gloving. 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 contaminated clothing.				
Respiratory protection Filter type	:	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 143 Particulates type (P)				
Гшег туре	•	railiculates type (r)				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid clear No data available No data available
рН	:	7.8 - 9.0
Melting point/freezing point	:	No data available

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	Initial b range	oiling point and boiling	:	No data available)
	Flash p	oint	:	No data available)
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	3
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Partitio octanol	er solubility n coefficient: n-	:	No data available Not applicable No data available	
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty :osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		formation ability (liquids)	:	No data available	
	Molecu	lar weight	:	No data available	9
	Particle	size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

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10.2 Chei	mical stability			
Stabl	e under normal conditio	ns.		
10.3 Poss	sibility of hazardous re	acti	ons	
Haza	rdous reactions	:	Can react with s	trong oxidizing agents.
10.4 Con	ditions to avoid			
Conc	litions to avoid	:	None known.	
10.5 Inco	mpatible materials			
Mate	rials to avoid	:	Oxidizing agents	;
10.6 Haza	ardous decomposition	pro	ducts	
	azardous decompositior	-		
SECTIO	N 11: Toxicological i	nfor	mation	
	-			
	mation on toxicologic			
Infori expo	mation on likely routes o	ot :	Inhalation Skin contact	
елро	Suic		Ingestion	
			Eye contact	
Acut	e toxicity			
	nful if swallowed. c if inhaled.			
<u>Prod</u>	uct:			
Acute	e oral toxicity	:	Acute toxicity esti Method: Calculati	imate: 604.68 mg/kg ion method
Acute	e inhalation toxicity	:		mate: 0.5964 mg/l
			Exposure time: 4 Test atmosphere	
			Method: Calculat	
Acute	e dermal toxicity	:	Acute toxicity esti Method: Calculati	imate: > 2,000 mg/kg ion method
Com	ponents:			
1-de	oxy-1-(methylamino)-D)-qlu	citol 2-[2-methyl-	3-(perfluoromethyl)anilino]nicotinate:
	e oral toxicity	:	LD50 (Rat): 53 -	
			LD50 (Mouse): 17	76 - 249 mg/kg
			LD50 (Guinea pig	y): 488.3 mg/kg
			LD50 (Monkey): 3	300 mg/kg

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	Acute in	halation toxicity	:	LC50 (Rat): < 0.52 Exposure time: 4 h Test atmosphere:	1
	Acute to administ	oxicity (other routes of tration)	:	LD50 (Rat): 59.4 - Application Route:	
				LD50 (Mouse): 16 Application Route:	
	Phenol:				
		ral toxicity	:	LD50 (Rat): 650 m Method: OECD Te	
				Acute toxicity estir Method: Expert jud	nate (Humans): 140 - 290 mg/kg dgement
	Acute in	halation toxicity	:	LC0 (Rat): 0.9 mg Exposure time: 8 h Test atmosphere: Assessment: Corr	1
				Acute toxicity estir Exposure time: 4 H Test atmosphere: Method: Expert jud	dust/mist
	Acute de	ermal toxicity	:	LD50 (Rabbit): 66 Method: OECD Te	
				Acute toxicity estir Method: Expert jud	nate (Humans): 300 mg/kg dgement
	2.2'-Imi	nodiethanol:			
	•	ral toxicity	:	LD50 (Rat): 1,600	mg/kg
	Acute in	halation toxicity	:	LC50 (Rat, male): Exposure time: 4 h Test atmosphere:	1
	Sodium	hydroxymethanesu	lphi	nate:	
		ral toxicity	:	LD50 (Rat): > 5,00 Method: OECD Te	
	Acute de	ermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te Remarks: Based o	
	Propyle	ene glycol:			

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rsion	Revision Date: 28.09.2024		0S Number: 73211-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
Acute	oral toxicity	:	LD50 (Rat): 22,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 44 Exposure time: 4 Test atmosphere	h
Acute	dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg e substance or mixture has no acute dermal
Skin d	corrosion/irritation			
Not cl	assified based on ava	ilable	information.	
Comp	oonents:			
1-deo	xy-1-(methylamino)-	D-qlu	citol 2-[2-methyl-	3-(perfluoromethyl)anilino]nicotinate:
Speci		:	Rabbit	. (
Resul		:	Mild skin irritation	1
Phene	ol:			
Speci		:	Rabbit	
Resul	t	:	Corrosive after 3	minutes to 1 hour of exposure
2,2'-Ir	ninodiethanol:			
Speci		:	Rabbit	
Resul	L	•	Skin irritation	
Sodiu	Im hydroxymethane:	sulph	inate:	
Speci		÷	Rat	
Resul Rema		:	No skin irritation	om similar materials
Rema		•	Dased on data in	
•••	/lene glycol:			
Speci		:	Rabbit	-1
Metho Resul			OECD Test Guid No skin irritation	eline 404
	us eye damage/eye i es serious eye damag		on	
	oonents:	0.		
-		D-glu	citol 2-[2-methvl-	3-(perfluoromethyl)anilino]nicotinate:
Speci		:	Rabbit	
Resul		:	Irreversible effect	ts on the eye
Phene	ol:			
Speci		:	Rabbit	
	bd		OECD Test Guid	alina 105

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Resu	ult	:	Irreversible effect	cts on the eye	
2,2'-	Iminodiethanol:				
Spec	cies	:	Rabbit		
Resu	ult	:	Irreversible effect	cts on the eye	
Sodi	ium hydroxymethane	sulph	inate:		
Spec	cies	:	Rabbit		
	Method		OECD Test Guideline 405		
Resu	ult	:	: No eye irritation		
Rem	arks	:	Based on data from similar materials		
Prop	oylene glycol:				
Spec	cies	:	Rabbit		
Meth	nod	:	OECD Test Gui	deline 405	
Resu	ult	:	No eye irritation		
Res	piratory or skin sensi	itisatio	on		
-	sensitisation				
Not o	classified based on ava	ailable	information.		
Res	piratory sensitisation	1			
Not classified based on available inform			information		

Not classified based on available information.

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:

		Maximisation Test
Test Type	•	
Exposure routes	:	Dermal
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Result	:	negative

Phenol:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species		Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

2,2'-Iminodiethanol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Sodium hydroxymethanesulphinate:

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Test T Expos Speci Metho Resul Rema	sure routes es od t		Maximisation Tes Skin contact Guinea pig OECD Test Guide negative Based on data fro	
Test		:	Maximisation Tes Skin contact	t
Speci Resul		:	Guinea pig negative	
	cell mutagenicity assified based on availa	able	information.	
<u>Com</u>	oonents:			
		-glu		B-(perfluoromethyl)anilino]nicotinate:
Geno	toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: in vitro Test system: mou Result: positive	o assay Ise lymphoma cells
				nosomal aberration nese hamster ovary cells
			Test Type: in vitro Test system: Esc Result: positive	
Geno	toxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
Germ sessn	cell mutagenicity- As- nent	:	Weight of evidend cell mutagen.	e does not support classification as a germ
Phen	ol:			
Geno	toxicity in vitro	:	Test Type: Chrom Method: OECD T Result: positive	nosome aberration test in vitro est Guideline 473
Geno	toxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) : Intraperitoneal injection

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			Result: positive	est Guideline 474 VI From 1272/2008
	erm cell mutagenicity- As- essment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
2,	2'-Iminodiethanol:			
	enotoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro
			Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
G	enotoxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
S	odium hydroxymethanesu	Inh	inate:	
	enotoxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials
G	enotoxicity in vivo	:	cytogenetic assay Species: Mouse Application Route Method: OECD T Result: positive	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection est Guideline 474 on data from similar materials
	erm cell mutagenicity- As- essment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
P	ropylene glycol:			
	enotoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
				nosome aberration test in vitro est Guideline 473
			16/31	

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ersion 1	Revision Date: 28.09.2024	SDS Number: 9373211-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
Geno	toxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
Carci	nogenicity		
	assified based on ava	ailable information	
	oonents:		
		-D-alucitol 2-[2-methy	/l-3-(perfluoromethyl)anilino]nicotinate:
Speci		: Rat	
	ation Route	: oral (feed)	
	sure time	: 104 w	
LOAE		: 2 mg/kg body v	veight
Resul		: negative	^c
	t Organs	: Gastrointestina	
Rema	rks	: Significant toxi	city observed in testing
Speci	es	: Mouse	
	ation Route	: oral (feed)	
Expos	sure time	: 97 w	
NOAE		: 0.6 mg/kg body	/ weight
Resul		: negative	
	t Organs	: Gastrointestina	
Rema	rks	: Significant toxi	city observed in testing
Phen	ol:		
Speci	es	: Mouse	
	ation Route	: Ingestion	
	sure time	: 103 weeks	
Metho		: OECD Test Gu	ideline 451
Resul	t	: negative	
2.2'-lr	ninodiethanol:		
Speci		: Mouse	
	ation Route	: Skin contact	
	sure time	: 103 weeks	
Resul	t	: positive	
Rema	rks	: The mechanisr mans.	n or mode of action may not be relevant in h
c .			
Speci		: Rat	
	ation Route	: Skin contact : 103 weeks	
Resul	sure time t	: negative	
Carcir	nogenicity - Assess-	: Weight of evide	ence does not support classification as a car
		cinogen	

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Propylene glycol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Reproductive toxicity

Not classified based on available information.

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral General Toxicity - Parent: LOAEL: 1 - 1.5 mg/kg body weight Symptoms: No foetal abnormalities Result: No effects on fertility and early embryonic develop- ment were detected.
Effects on foetal develop- ment	:	Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: LOAEL: 2 mg/kg body weight Embryo-foetal toxicity: NOAEL: 2 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected only at high maternally toxic doses
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral General Toxicity Maternal: LOAEL: 3 mg/kg body weight Embryo-foetal toxicity: NOAEL: 3 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected only at high maternally toxic doses
Phenol:		
Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative

2,2'-Iminodiethanol:

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Ef	ffects	on fertility	:	Test Type: One-g Species: Rat Application Route Method: OECD To Result: positive	
	ffects ent	on foetal develop-	:	Test Type: One-g Species: Rat Application Route Method: OECD To Result: positive	
	eprod essme	uctive toxicity - As- ent	:		f adverse effects on sexual function and development, based on animal experiments.
Se	odiun	n hydroxymethanesu	Iphi	inate:	
Ef	ffects	on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
	ffects ent	on foetal develop-	:	Species: Rat Application Route Method: OECD To Result: positive	
	eprod essme	uctive toxicity - As- ent	:	Some evidence o animal experimen	f adverse effects on development, based on ts.
Р	ropyle	ene glycol:			
		on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study
	ffects ent	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	ro-foetal development : Ingestion

STOT - single exposure

Not classified based on available information.

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rsion	Revision Date: 28.09.2024	SDS Nur 9373211		Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
Comp	oonents:			
1-deo	xy-1-(methylamino)	D-alucitol 2	-[2-methy	I-3-(perfluoromethyl)anilino]nicotinate:
	sment	-		piratory irritation.
STOT	- repeated exposur	e		
May c	ause damage to orga	ins through p	rolonged o	or repeated exposure.
Comp	oonents:			
1-deo	xy-1-(methylamino)	D-alucitol 2	-[2-methv	I-3-(perfluoromethyl)anilino]nicotinate:
	t Organs	-		tract, Kidney, Blood
	sment		es damage	e to organs through prolonged or repeated
Phen	ol:			
	t Organs			system, Kidney, Liver, Skin
Asses	ssment	: May expos		hage to organs through prolonged or repeat
2,2'-Ir	ninodiethanol:			
	sure routes	: Inges		
	t Organs ssment			Liver, Nervous system ice significant health effects in animals at co
Asses	sment			10 to 100 mg/kg bw.
	sure routes			/mist/fume)
	t Organs		ey, Blood	es significant haalth offects in animals at as
Asses	ssment		•	ice significant health effects in animals at co 0.02 to 0.2 mg/l/6h/d.
	sure routes		contact	
-	t Organs		d, Liver, Kie	
Asses	ssment			ice significant health effects in animals at co 20 to 200 mg/kg bw.
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
1-deo	xy-1-(methylamino)	D-glucitol 2	-[2-methy	I-3-(perfluoromethyl)anilino]nicotinate:
Speci	es	: Rat	-	
NOAE		: 2 mg/		
LOAE		: < 4 r : Oral	ng/kg	
	ation Route	: 01ai : 6 w		
	t Organs		rointestinal	tract

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	ure time	: 1 y	
larget	t Organs	: Gastrointestina	l tract, Kidney
Specie		: Monkey	
NOAE		: 15 mg/kg	
	ation Route ure time	: Oral : 90 d	
	t Organs	: Gastrointestina	l tract, Blood
Specie	es	: Rabbit	
LÖAEI		: 80 mg/kg	
	ation Route	: Dermal	
	ure time	: 21 d	_
Sympt	oms	: Severe irritation	1
Specie		: Dog	
LOAEI	L ation Route	: 11 mg/kg : Oral	
	ure time	: 9 d	
	t Organs	: Gastrointestina	l tract
Sympt		: Vomiting	
Pheno	bl:		
Specie	es	: Rat	
LÖAEI		: 300 mg/kg	
	ation Route	: Ingestion	
	ure time	: 90 Days	idaliaa 100
Metho	u	: OECD Test Gu	
Specie	es	: Rat	
NOAE		: >= 0.1 mg/l	
	ation Route	: inhalation (vap	our)
Expos	ure time	: 74 Days	
Specie	es	: Rabbit	
LOAEI		: 260 mg/kg	
	ation Route ure time	: Skin contact	
Expos		: 18 Days	
2,2'-In	ninodiethanol:		
Specie		: Rat, female	
LÖAEI		: 14 mg/kg	
	ation Route	: Ingestion	
Expos	ure time	: 13 Weeks	
Specie		: Rat	
NOAE		: 0.015 mg/l	
	ation Route	: inhalation (dust	t/mist/fume)
Metho	ure time d	: 90 Days : OECD Test Gu	ideline 413
Specie	es	: Rat	
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Ap	DAEL oplication Route oposure time	: : :	32 mg/kg Skin contact 13 Weeks	
Sc	odium hydroxymethanesu	lph	inate:	
NC Ap Ex Me	pecies DAEL oplication Route posure time ethod emarks	:	Rat 600 mg/kg Ingestion 90 Days OECD Test Guide Based on data fro	eline 408 om similar materials
Pr	opylene glycol:			
NC Ap	pecies DAEL oplication Route posure time	:	Rat, male >= 1,700 mg/kg Ingestion 2 yr	
No	spiration toxicity ot classified based on availa sperience with human exp			
<u>Cc</u>	omponents:			
Inf Sk Ey	deoxy-1-(methylamino)-D- nalation in contact re contact gestion	-glu	Symptoms: respir Symptoms: Skin i Symptoms: Sever	e irritation ointestinal disturbance, bleeding, hyperten-
SECTI	ON 12: Ecological infor	ma	tion	
12.1 To	vicity			
	oduct:			
	xicity to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD T	
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
	xicity to algae/aquatic ants	:	EC50 (Pseudokiro mg/l	chneriella subcapitata (green algae)): > 100

NOEC (Pseudokirchneriella subcapitata (green algae)): 32

Method: OECD Test Guideline 201

Exposure time: 72 h

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Versio 5.1	on	Revision Date: 28.09.2024		9S Number: 73211-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
				mg/l Exposure time: 72 Method: OECD Te	
<u>(</u>	Compo	nents:			
	1-deoxy Toxicity		glu :		
				LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08	
	Toxicity plants	to algae/aquatic	:	NOEC (Microcysti Exposure time: 13 Method: FDA 4.01	
				NOEC (Selenastre Exposure time: 12	um capricornutum (green algae)): 96 mg/l 2 d
F	Phenol:				
٦	Toxicity	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 24.9 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 3.1 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	EC50 (Selenastru Exposure time: 96	m capricornutum (green algae)): 61.1 mg/l 5 h
٦	Toxicity	to microorganisms	:	IC50 (Nitrosomon Exposure time: 24	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.077 mg/ Exposure time: 60	
a		to daphnia and other invertebrates (Chron- y)	:	NOEC: 10 mg/l Exposure time: 16 Species: Daphnia	od magna (Water flea)
2	2,2'-lmi	nodiethanol:			
	, Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 460 mg/l 3 h
٦	Toxicity	to daphnia and other	:	EC50 (Ceriodaphi	nia dubia (water flea)): 30.1 mg/l

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Versio 5.1	n	Revision Date: 28.09.2024		9S Number: 73211-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
a	quatic	invertebrates		Exposure time: 48	3 h
	oxicity lants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 9.5 ? h
				EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 1.1 ? h
Т	Toxicity to microorganisms		:	EC10 (activated s Exposure time: 30 Method: OECD Te	
a		to daphnia and other invertebrates (Chron- ty)	:	EC10: 1.05 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
S	odium	n hydroxymethanesu	lphi	nate:	
Т	oxicity	to fish	:	Exposure time: 96	dus (Golden orfe)): > 10,000 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
Т	oxicity	to microorganisms	:	EC50 : > 1,000 m Exposure time: 4 Remarks: Based o	
	oxicity city)	to fish (Chronic tox-	:	NOEC: 13.5 mg/l Exposure time: 35 Species: Danio re Method: OECD Te Remarks: Based of	rio (zebra fish)
a		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD Te	magna (Water flea)
Р	ropyle	ene glycol:			
		to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l 5 h

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		v to daphnia and other invertebrates	:	EC50 (Ceriodaph Exposure time: 4{	nia dubia (water flea)): 18,340 mg/l 3 h
	Toxicity to algae/aquatic plants		•	ErC50 (Skeletone Exposure time: 72 Method: OECD T	
	Toxicity to microorganisms		:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	Exposure time: 7	
12.2	Persist	tence and degradabil	ity		
	Compo	onents:			
	1-deox	y-1-(methylamino)-D-	glu	citol 2-[2-methyl-3	3-(perfluoromethyl)anilino]nicotinate:
	Stability	/ in water	:	Hydrolysis: 0 %(2	8 d)
	Phenol	:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: (Exposure time: 10 Method: OECD T	62 %
	2,2'-Imi	inodiethanol:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	93 %
	Sodiun	n hydroxymethanesu	lphi	inate:	
	Biodeg	radability	:		77 %

Propylene glycol:

Biodegradability : Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F

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12.3 Bioaccumulative potential

Components:

1-deoxy-1-(methylamino)-D- Partition coefficient: n- octanol/water	glu :	citol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: log Pow: 1.34
Phenol:		
Bioaccumulation	:	Species: Fish Bioconcentration factor (BCF): 17.5 Method: OECD Test Guideline 305
Partition coefficient: n- octanol/water	:	log Pow: 1.47
2,2'-Iminodiethanol:		
Partition coefficient: n- octanol/water	:	log Pow: -2.46 Method: OECD Test Guideline 107
Propylene glycol:		
Partition coefficient: n- octanol/water	:	log Pow: -1.07 Method: Regulation (EC) No. 440/2008, Annex, A.8

12.4 Mobility in soil

Components:

1-deoxy-1-(methylamino)-D-	glu	citol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Distribution among environ- mental compartments	:	log Koc: 1.92

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-	:	This substance/mixture does not contain components consid-
tial		ered to have endocrine disrupting properties for environment
		according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations.

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Contar	minated packaging	are not product Waste codes s discussion with Do not dispose : Empty containe dling site for re	te European Waste Catalogue, Waste Codes t specific, but application specific. hould be assigned by the user, preferably in the waste disposal authorities. e of waste into sewer. ers should be taken to an approved waste han- cycling or disposal. e specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN		:	Not regulated as a dangerous good
ADR		:	Not regulated as a dangerous good
RID		:	Not regulated as a dangerous good
IMDG		:	Not regulated as a dangerous good
ΙΑΤΑ		:	Not regulated as a dangerous good
14.2 UN pro	per shipping name		
ADN		:	Not regulated as a dangerous good
ADR		:	Not regulated as a dangerous good
RID		:	Not regulated as a dangerous good
IMDG		:	Not regulated as a dangerous good
ΙΑΤΑ		:	Not regulated as a dangerous good
14.3 Transp	ort hazard class(es)		
ADN		:	Not regulated as a dangerous good
ADR		:	Not regulated as a dangerous good
RID		:	Not regulated as a dangerous good
IMDG		:	Not regulated as a dangerous good
ΙΑΤΑ		:	Not regulated as a dangerous good
14.4 Packing	g group		
ADN		:	Not regulated as a dangerous good
ADR		:	Not regulated as a dangerous good
RID		:	Not regulated as a dangerous good
IMDG		:	Not regulated as a dangerous good
IATA (C	argo)	:	Not regulated as a dangerous good
IATA (P	assenger)	:	Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

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14.6 Special precautions for user

Not applicable

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 (A	:	Conditions of restr lowing entries sho Number on list 3			
			Substance(s) or m here according to t in the regulation, ir use/purpose or the restriction. Please tions in correspond determine whether cable to the placin not.	their appearance respective of their e conditions of the refer to the condi- ding Regulation to r an entry is appli-	
UK REACH Candidate list of sub concern (SVHC) for Authorisation		:	Not applicable		
The Persistent Órganic Pollutant Regulation (EU) 2019/1021 as ar ain)	s Regulations (retained	:	Not applicable		
Regulation (EC) on substances to layer	hat deplete the ozone	:	Not applicable		
UK REACH List of substances su (Annex XIV)	ubject to authorisation	:	Not applicable		
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation			Not applicable		
Control of Major Accident Hazards Regulations 2015 (COMAH)					
H2	ACUTE TOXIC		Quantity 1 50 t	Quantity 2 200 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

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DSL		: not determined			
IECS	C	: not determined			
15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.					

SECTION 16: Other information

Other	information
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: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full tout of LL Ctotomouto		
Full text of H-Statements		
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H331	:	Toxic if inhaled.
H335	:	May cause respiratory irritation.
H341	:	Suspected of causing genetic defects.
H361	:	Suspected of damaging fertility or the unborn child.
H361d	:	Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated
		exposure.
H373	:	May cause damage to organs through prolonged or repeated
		exposure.
H411	:	Toxic to aquatic life with long lasting effects.
Failt (and a faith an able weed a f		
Full text of other abbreviation	ons	
Acute Tox.	ons :	Acute toxicity
	ons : :	Acute toxicity Long-term (chronic) aquatic hazard
Acute Tox.	ons : : :	Long-term (chronic) aquatic hazard
Acute Tox. Aquatic Chronic	ons : : : :	Long-term (chronic) aquatic hazard Serious eye damage
Acute Tox. Aquatic Chronic Eye Dam.	ons : : :	Long-term (chronic) aquatic hazard
Acute Tox. Aquatic Chronic Eye Dam. Muta.	ons : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr.	ons : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr.	ons : : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit.	ons : : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE	ons : : : : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT SE	ons	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT SE	ons : : : : : : : : : : : : : : : : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT SE	ons : : : : : : : : : : : : : : : : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT SE	ons : : : : : : : : : : : : : : : : : : :	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
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Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT SE 2009/161/EU GB EH40	ons	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC UK. EH40 WEL - Workplace Exposure Limits Limit Value - eight hours
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT SE 2009/161/EU GB EH40 2009/161/EU / TWA	ons	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC UK. EH40 WEL - Workplace Exposure Limits Limit Value - eight hours Short term exposure limit
Acute Tox. Aquatic Chronic Eye Dam. Muta. Repr. Skin Corr. Skin Irrit. STOT RE STOT RE STOT SE 2009/161/EU GB EH40 2009/161/EU / TWA 2009/161/EU / STEL	ons	Long-term (chronic) aquatic hazard Serious eye damage Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC UK. EH40 WEL - Workplace Exposure Limits Limit Value - eight hours



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

Further information

Sources of key data used to	:	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:					
H302	Calculation method				
H331	Calculation method				
H318	Calculation method				
H373	Calculation method				
	H302 H331 H318				

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 mate-

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

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rial is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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