

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

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

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3 Acute toxicity, Category 4 Acute toxicity, Category 2 Serious eye damage, Category 1 Reproductive toxicity, Category 1B	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H330: Fatal if inhaled. H318: Causes serious eye damage. H360FD: May damage fertility. May damage the unborn child.
Specific target organ toxicity - repeated	H372: Causes damage to organs through pro-
exposure, Category 1	longed or repeated exposure.
Long-term (chronic) aquatic hazard, Cat-	H412: Harmful to aquatic life with long lasting ef-
egory 3	fects.



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2.2 Label elements

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

Hazard pictograms	
Signal word	Danger
Hazard statements	 H226 Flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H330 Fatal if inhaled. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 Prevention: P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response: P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- sent and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
Hazardaya componente which	must be listed on the lobely

Hazardous components which must be listed on the label: 2-Pyrrolidone Benzyl alcohol

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

2.3 Other hazards

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

Vapours may form explosive mixture with air.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Pyrrolidone	616-45-5 210-483-1	Eye Irrit. 2; H319 Repr. 1B; H360FD 	>= 30 - < 50
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 20 - < 30
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3- (perfluoromethyl)anilino]nicotinate	42461-84-7 255-836-0	Acute Tox. 3; H301 Acute Tox. 2; H330 Eye Dam. 1; H318 STOT SE 3; H335 STOT RE 1; H372 (Gastrointestinal tract, Kidney, Blood) Aquatic Chronic 2; H411	>= 10 - < 20
L-Menthol	2216-51-5 218-690-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 specific concentra- tion limit Skin Irrit. 2; H315 > 25 % Eye Irrit. 2; H319 > 25 %	>= 10 - < 20
Propan-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 10

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 symptoms advice.	v. s persist or in all cases of doubt seek medical
Protec	ction of first-aiders	:	and use the reco	ders should pay attention to self-protection, ommended personal protective equipment ial for exposure exists (see section 8).
lf inha	led	:	If breathing is dif	ve to fresh air. give artificial respiration. fficult, give oxygen. ntion immediately.
In cas	e of skin contact	:	of water. Remove contam Get medical atte Wash clothing be	
In cas	e of eye contact	:	for at least 15 m If easy to do, rer	ct, immediately flush eyes with plenty of wate inutes. nove contact lens, if worn. ntion immediately.
lf swa	llowed	:	Get medical atte Rinse mouth tho) NOT induce vomiting. ntion. roughly with water. ning by mouth to an unconscious person.
4.2 Most ir	mportant symptoms a	nd e	effects, both acut	te and delaved
Risks		:	Harmful if swallo Causes serious Fatal if inhaled. May damage fer	wed.
1.2 Indicat	tion of any immediate	mo	lical attention on	ad appoint tractment peopled
Treatr	-	:		id special treatment needed tically and supportively.
SECTION	5: Firefighting meas	sur	es	
5 1 Extina	uishing media			
-	ble extinguishing media	:	Water spray	

Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing : High volume water jet



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media

5.2 Special hazards arising from the substance or mixture

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	Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides 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	 Evacuate personnel to safe areas. Only trained personnel should re-enter the area. Remove all sources of ignition. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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6.2 Environmental precautions

Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
		ment Agency (emergency telephone number 0000 007000):

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Non-sparking tools should be used.
	Soak up with inert absorbent material.
	Suppress (knock down) gases/vapours/mists with a water
	spray jet.
	For large spills, provide dyking or other appropriate contain-
	ment to keep material from spreading. If dyked material can



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		Clean up remaini bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

1 Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling :	
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.
2 Conditions for safe storage in	cluding any incompatibilities

7.1

7.2 Conditions for safe storage,	including an	v incompatibilities
1.2 Conditions for sale storage,	including an	y moompanyinnes

Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Keep in a cool, well-ventilated place. Store in
		accordance with the particular national regulations. Keep



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		away from heat	and sources of ignition.
Advice	e on common storage	Strong oxidizing Self-reactive sul Organic peroxid Flammable liqui Flammable solid Pyrophoric liquid Self-heating sub Substances and flammable gase Explosives Gases	bstances and mixtures es ds ds ds ds setances and mixtures I mixtures, which in contact with water, emit
7.3 Specifi	c 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	
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 information: Skin				
		Wipe limit	400 µg/100 cm²	Internal	
Propan-2-ol	67-63-0	STEL	500 ppm 1,250 mg/m3	GB EH40	
		TWA	400 ppm 999 mg/m3	GB EH40	

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
2-Pyrrolidone	Workers	Inhalation	Long-term systemic	57.8 mg/m3
			effects	
	Workers	Skin contact	Long-term systemic	10 mg/kg
			effects	bw/day
	Workers	Skin contact	Acute systemic ef-	277 mg/kg

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				fects	bw/day
		Consumers	Inhalation	Long-term systemic effects	17.1 mg/m3
		Consumers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	167 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	5.2 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	33.3 mg/kg bw/day
Benzy	/l alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
		Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
		Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
		Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day
L-Mer	nthol	Workers	Inhalation	Long-term systemic effects	132 mg/m3
		Workers	Skin contact	Long-term systemic effects	19 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	33 mg/m3
		Workers	Inhalation	Long-term local ef- fects	10 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	1.7 mg/m3
		Consumers	Skin contact	Long-term systemic effects	9.4 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	9.4 mg/kg bw/day
Propa	in-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
		Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	89 mg/m3
		Consumers	Skin contact	Long-term systemic	319 mg/kg

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		effects	bw/day
Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Decanoic acid, mixed diesters with octanoic acid and propylene glycol	Soil	0.2638 mg/kg
2-Pyrrolidone	Fresh water	0.5 mg/l
)	Freshwater - intermittent	0.5 mg/l
	Marine water	0.05 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.4205 mg/kg dry weight (d.w.)
	Soil	0.0612 mg/kg dry weight (d.w.)
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
	Marine sediment	0.527 mg/kg
	Soil	0.456 mg/kg
L-Menthol	Fresh water	15.6 μg/l
	Marine water	1.56 µg/l
	Intermittent use/release	156 µg/l
	Sewage treatment plant	2.37 mg/l
	Fresh water sediment	289 µg/l
	Marine sediment	28.9 µg/l
	Soil	48.4 µg/l
Propan-2-ol	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Intermittent use/release	140.9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg dry weight (d.w.)
	Marine sediment	552 mg/kg dry weight (d.w.)
	Soil	28 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	160 mg/kg food

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.



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

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
		Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid yellow mint-like No data available
рН	:	8.0
Melting point/freezing point	:	< -20 °C
Initial boiling point and boiling	:	No data available
range Flash point	:	43.33 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available

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		explosion limit / Lower ability limit	:	No data available	e
	Vapou	r pressure	:	No data available	e
	Relativ	e vapour density	:	No data available	e
	Relativ	e density	:	No data available	e
	Density	y	:	1.05 g/cm ³	
	Partitio octano Auto-ig Decom Viscos Visco Explos	ter solubility in coefficient: n- l/water inition temperature inposition temperature	: : : : : : : : : : : : : : : : : : : :	No data available Not applicable No data available No data available No data available Not explosive The substance of	e
9.2		nformation			
	Flamm	ability (liquids)	:	No data available	e
	Molecu	ılar weight	:	No data available	e
	Particle	e size	:	Not applicable	

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. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid		

Conditions to avoid : Heat, flames and sparks.

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0.5 Incon	npatible materials			
Mater	ials to avoid	:	Oxidizing agents	
0.6 Haza	rdous decomposition p	oro	ducts	
No ha	zardous decomposition	pro	ducts are known.	
SECTION	I 11: Toxicological in	for	mation	
1.1 Infor	nation on toxicologica	l ef	fects	
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Harm	e toxicity ful if swallowed. if inhaled.			
<u>Produ</u>	<u>uct:</u>			
Acute	oral toxicity	:	Acute toxicity estin Method: Calculation	mate: 306.94 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity estir Exposure time: 4 I Test atmosphere: Method: Calculatio	h dust/mist
<u>Com</u>	oonents:			
2-Pyr	rolidone:			
Acute	oral toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te Assessment: The icity	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Method: OECD Te Assessment: The toxicity	
Benzy	yl alcohol:			
Acute	oral toxicity	:	LD50 (Rat): 1,620	mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4.17 Exposure time: 4 I Test atmosphere: Method: OECD Te	h dust/mist
1-deo	xy-1-(methylamino)-D-	glu	citol 2-[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:
Acute	oral toxicity	:	LD50 (Rat): 53 - 1	57 mg/kg

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				LD50 (Mouse): 17	6 - 249 mg/kg
				LD50 (Guinea pig): 488.3 mg/kg
				LD50 (Monkey): 3	00 mg/kg
ļ	Acute in	halation toxicity	:	LC50 (Rat): < 0.52 Exposure time: 4 Test atmosphere:	h
	Acute to adminis	oxicity (other routes of tration)	:	LD50 (Rat): 59.4 - Application Route	
				LD50 (Mouse): 16 Application Route	
L	Mentł	nol:			
		halation toxicity	:	LC50 (Rat): 5.289 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
ļ	Acute de	ermal toxicity	:	LD50 (Rabbit): > 5 Method: OECD Te	
F	Propan	-2-ol:			
	-	ral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
ŀ	Acute in	halation toxicity	:	LC50 (Rat): > 25 r Exposure time: 6 Test atmosphere:	h
ŀ	Acute de	ermal toxicity	:	LD50 (Rabbit): > 5	5,000 mg/kg
		rrosion/irritation sified based on availa	ble	information.	
<u>(</u>	Compo	nents:			
2	2-Pyrro	lidone:			
Ν	Species Method Result		:	Rabbit OECD Test Guide No skin irritation	line 404
S	Benzyl Species Method Result	alcohol:	: :	Rabbit OECD Test Guide No skin irritation	line 404

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1-de	oxy-1-(methylamino)-	D-glucitol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
Spec Resu		: Rabbit : Mild skin irritatio	n
L-Me	enthol:		
Spec Meth Resu	od	: Rabbit : OECD Test Guid : Skin irritation	deline 404
Prop	oan-2-ol:		
Spec Resu		: Rabbit : No skin irritation	
	ous eye damage/eye i ses serious eye damag		
	ponents:		
2-Py	rrolidone:		
Spec Resu		: Rabbit : Irritation to eyes	, reversing within 7 days
Benz	zyl alcohol:		
Spec		: Rabbit	
Meth Resu		: OECD Test Guid : Irritation to eyes	, reversing within 21 days
1-de	oxy-1-(methylamino)-	D-glucitol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
Spec Resu		: Rabbit : Irreversible effec	cts on the eye
L-Me	enthol:		
Spec		: Rabbit	
Meth Resu		: OECD Test Guid : Irritation to eyes	deline 405 , reversing within 7 days
Prop	oan-2-ol:		
Spec Resi		: Rabbit	, reversing within 21 days
			, reversing within 21 days
	piratory or skin sensit	isation	
-	sensitisation	ilable information.	
Resp	piratory sensitisation		
Not o	classified based on ava	ilable information.	

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<u>Comp</u>	onents:	
2-Pyrr	olidone:	
Test T		: Local lymph node assay (LLNA)
	ure routes	: Skin contact
Specie	es	: Mouse
Metho		: OECD Test Guideline 429
Result		: negative
Remai	rks	: Based on data from similar materials
Benzy	l alcohol:	
Test T	уре	: Maximisation Test
	ure routes	: Skin contact
Specie		: Guinea pig
Metho		: OECD Test Guideline 406
Result		: negative
1-deox	xy-1-(methylamino))-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinat
Test T	уре	: Maximisation Test
	ure routes	: Dermal
Specie		: Guinea pig
Asses		: Does not cause skin sensitisation.
Result		: negative
L-Men	thol:	
Test T	уре	: Local lymph node assay (LLNA)
Expos	ure routes	: Skin contact
Specie		: Mouse
Metho		: OECD Test Guideline 429
Result		: negative
Propa	n-2-ol:	
Test T	уре	: Buehler Test
	ure routes	: Skin contact
Specie		: Guinea pig
Metho		: OECD Test Guideline 406
Result		: negative
Germ	cell mutagenicity	
Not cla	assified based on av	vailable information.
<u>Comp</u>	onents:	
-	olidone:	
Genote	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Nesuli. negalive



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			Remarks: Base	d on data from similar materials
				omosome aberration test in vitro Test Guideline 473 e
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse Application Rou	e ite: Intraperitoneal injection Test Guideline 474
Benz	yl alcohol:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
1-doc	xy_1_(mothylamino)_F)-alu	cital 2-[2-mathy	I-3-(perfluoromethyl)anilino]nicotinate:
	toxicity in vitro	-giù :		terial reverse mutation assay (AMES)
			Test Type: in vi Test system: m Result: positive	tro assay ouse lymphoma cells
				omosomal aberration ninese hamster ovary cells
			Test Type: in vi Test system: Es Result: positive	
Geno	toxicity in vivo	:	Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Oral
Germ sessn	cell mutagenicity- As- nent	:	Weight of evide cell mutagen.	nce does not support classification as a germ
L-Me	nthol:			
	toxicity in vitro	:	Result: negative	omosome aberration test in vitro e d on data from similar materials
			16 / 30	



sion	Revision Date: 30.09.2023	SDS Number: 9372833-00007	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro Method: OECE Result: negativ	e ute: Intraperitoneal injection D Test Guideline 474
Propa	an-2-ol:		
Geno	toxicity in vitro	: Test Type: Bad Result: negativ	cterial reverse mutation assay (AMES) /e
		Test Type: In v Result: negativ	<i>r</i> itro mammalian cell gene mutation test /e
Geno	toxicity in vivo	cytogenetic as Species: Mous	
	nogenicity	Result: negativ	/e
Not cl <u>Comp</u>	assified based on av	Result: negativ	/e
Not cl <u>Comr</u> 2-Pyr	assified based on av ponents: rolidone:	Result: negativ	/e
Not cl <u>Comp</u> 2-Pyr Speci Applic	assified based on av <u>ponents:</u> rolidone: es cation Route	Result: negativ vailable information. : Mouse : Ingestion	/e
Not cl <u>Comp</u> 2-Pyr Speci Applic Expos	assified based on av <u>conents:</u> rolidone: es cation Route sure time	Result: negativ vailable information. : Mouse : Ingestion : 18 month(s)	/e
Not cl <u>Comp</u> 2-Pyr Speci Applic Expos Resul	assified based on av <u>conents:</u> rolidone: es cation Route sure time t	Result: negativ vailable information. : Mouse : Ingestion : 18 month(s) : negative	
Not cl <u>Comp</u> 2-Pyr Speci Applic Expos	assified based on av <u>conents:</u> rolidone: es cation Route sure time t	Result: negativ vailable information. : Mouse : Ingestion : 18 month(s) : negative	from similar materials
Not cl <u>Comp</u> 2-Pyr Speci Applic Expos Resul Rema	assified based on av <u>conents:</u> rolidone: es cation Route sure time t	Result: negativ vailable information. : Mouse : Ingestion : 18 month(s) : negative	
Not cl <u>Comp</u> 2-Pyr Speci Applic Expos Resul Rema Benzy Speci	assified based on av <u>conents:</u> rolidone: es cation Route sure time t urks yl alcohol: es	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse	
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic	assified based on av <u>conents:</u> rolidone: es cation Route sure time t urks yl alcohol: es cation Route	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion	
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos	assified based on av <u>conents:</u> rolidone: es cation Route sure time t irks yl alcohol: es cation Route sure time	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion : 103 weeks	from similar materials
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos Methor	assified based on av <u>conents:</u> rolidone: es cation Route sure time t irks yl alcohol: es cation Route sure time bd	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Ingestion : 103 weeks : OECD Test Gu	from similar materials
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos	assified based on av <u>conents:</u> rolidone: es cation Route sure time t irks yl alcohol: es cation Route sure time bd	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion : 103 weeks	from similar materials
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Speci Applic Expos Methor Resul	assified based on av <u>conents:</u> rolidone: es cation Route sure time t irks yl alcohol: es cation Route sure time bd t	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion : 103 weeks : OECD Test Gu : negative	from similar materials
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Speci Applic Expos Methor Resul	assified based on av <u>conents:</u> rolidone: es cation Route sure time t urks yl alcohol: es cation Route sure time od t pxy-1-(methylamino	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion : 103 weeks : OECD Test Gu : negative	from similar materials uideline 451
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos Methor Resul 1-deo Speci	assified based on av <u>conents:</u> rolidone: es cation Route sure time t urks yl alcohol: es cation Route sure time od t pxy-1-(methylamino	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Ingestion : 103 weeks : OECD Test Gu : negative	from similar materials uideline 451
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos Methor Resul 1-dec Speci Applic	assified based on av <u>conents:</u> rolidone: es cation Route sure time t urks yl alcohol: es cation Route sure time od t pxy-1-(methylamino es	Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion : 103 weeks : OECD Test Gu : negative)-D-glucitol 2-[2-meth : Rat	from similar materials uideline 451
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos Methor Resul 1-deo Speci Applic Expos Methor Resul LOAE	assified based on av <u>conents:</u> rolidone: es cation Route sure time t urks yl alcohol: es cation Route sure time od t pxy-1-(methylamino es cation Route sure time int	 Result: negative vailable information. : Mouse : Ingestion : 18 month(s) : negative : Based on data : Mouse : Ingestion : 103 weeks : OECD Test Guite in the second secon	from similar materials uideline 451 yl-3-(perfluoromethyl)anilino]nicotinate :
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos Methor Resul 1-deo Speci Applic Expos Methor Resul Resul Comp Resul Rema Resul Rema Resul Rema Resul Rema Resul Res	assified based on av <u>conents:</u> rolidone: es cation Route sure time t irks yl alcohol: es cation Route sure time od t pxy-1-(methylamino es cation Route sure time t t	 Result: negative vailable information. Ingestion Ingestion 18 month(s) negative Based on data Mouse Ingestion 103 weeks OECD Test Guestion negative P-D-glucitol 2-[2-metholic or al (feed) 104 w 2 mg/kg body westigned by the second seco	from similar materials uideline 451 yl-3-(perfluoromethyl)anilino]nicotinate: weight
Not cl Comp 2-Pyr Speci Applic Expos Resul Rema Benzy Speci Applic Expos Methor Resul 1-deo Speci Applic Expos Methor Resul Resul Comp Resul Rema Resul Rema Resul Rema Resul Rema Resul Res	assified based on av <u>conents:</u> rolidone: es cation Route sure time t irks yl alcohol: es cation Route sure time od t es cation Route sure time it pxy-1-(methylamino es cation Route sure time t t t t t t t t t t t t t	 Result: negative vailable information. Ingestion Ingestion 18 month(s) negative Based on data Mouse Ingestion 103 weeks OECD Test Guestion negative P)-D-glucitol 2-[2-metholic construction of the second s	from similar materials uideline 451 yl-3-(perfluoromethyl)anilino]nicotinate: weight

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Expos NOAE Resul	cation Route sure time EL t t Organs	: Mouse : oral (feed) : 97 w : 0.6 mg/kg bo : negative : Gastrointesti : Significant to	
L-Mei	nthol:		
	cation Route sure time od t	: negative	Guideline 453 ta from similar materials
Propa	an-2-ol:		
Speci Applic	es cation Route sure time od	: Rat : inhalation (va : 104 weeks : OECD Test : negative	apour) Guideline 451
May c	oductive toxicity lamage fertility. May da ponents:	mage the unborn	child.
	rolidone:		
-	s on fertility	Species: Rat Application F Result: posit	Route: Ingestion
Effect ment	s on foetal develop-	Species: Rat	Route: Ingestion
Repro sessn	oductive toxicity - As- nent	ity, based or	ce of adverse effects on sexual function and fertil- animal experiments., Clear evidence of adverse evelopment, based on animal experiments.
Benzy	yl alcohol:		
-	s on fertility	Species: Rat Application F Result: nega	Route: Ingestion



Versic 4.1	n	Revision Date: 30.09.2023		S Number: 72833-00007	Date of last issue: 04.04.2023 Date of first issue: 27.08.2021
	Effects nent	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-foetal development : Ingestion
	•	y-1-(methylamino)-D- on fertility	glu(Test Type: Two-ge Species: Rat Application Route General Toxicity - Symptoms: No foe	Parent: LOAEL: 1 - 1.5 mg/kg body weight etal abnormalities on fertility and early embryonic develop-
	Effects nent	on foetal develop-	:	Embryo-foetal tox Result: Embryotox	
				Species: Rabbit Application Route General Toxicity M Embryo-foetal tox Result: Embryotox	o-foetal development : Oral Maternal: LOAEL: 3 mg/kg body weight icity: NOAEL: 3 mg/kg body weight kic effects and adverse effects on the off- ted only at high maternally toxic doses
	Ment	hali			
E		on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion
P	Propan	-2-ol·			
	-	on fertility	:	Test Type: Two-go Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	ffects nent	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion

STOT - single exposure

Not classified based on available information.



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	Comp	onents:			
	1-deo	xy-1-(methylamino)	-D-gluci	ol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
	Asses	sment	: N	lay cause resp	iratory irritation.
	Propa	ın-2-ol:			
	-	sment	: N	lay cause drow	siness or dizziness.
	стот	- repeated exposur	е		
		es damage to organs		prolonged or re	peated exposure.
	<u>Comp</u>	onents:			
	Targe	xy-1-(methylamino) t Organs sment	: (Bastrointestinal	-3-(perfluoromethyl)anilino]nicotinate: tract, Kidney, Blood to organs through prolonged or repeated
	Repea	ated dose toxicity			
	Comp	onents:			
	2-Pyri	rolidone:			
		L ation Route sure time	: 2 : li : 3	at 07 mg/kg ngestion Months DECD Test Guid	deline 408
	Benzy	/l alcohol:			
	Specie NOAE Applic	es L ation Route sure time	: 1 : in : 2	eat .072 mg/l hhalation (dust/ 8 Days DECD Test Guid	
	1-deo	xy-1-(methylamino)	-D-gluci	ol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
	Specie NOAE LOAE Applic Expos	es EL	: F : 2 : · ·	Rat mg/kg < 4 mg/kg Dral w Gastrointestinal	
	Expos		: 1 : C : 1	tat mg/kg Dral y Gastrointestinal	tract, Kidney

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Expos		: Monkey : 15 mg/k : Oral : 90 d : Gastroir		ict, Blood
	EL cation Route sure time	: Rabbit : 80 mg/ł : Dermal : 21 d : Severe i	-	
Expos	L cation Route sure time t Organs	: Dog : 11 mg/ł : Oral : 9 d : Gastroir : Vomiting	ntestinal tra	ict
L-Me	nthol:			
Speci NOAE Applic	es EL cation Route sure time od		n ; Fest Guidel	ine 408 n similar materials
Prop	an-2-ol:			
Speci NOAE Applic	es	: Rat : 12.5 mg : inhalatic : 104 We	on (vapour)	
-	ation toxicity			
	assified based on ava		on.	
-	rience with human e	xposure		
Com	oonents:			
Inhala		: Symptor	-	(perfluoromethyl)anilino]nicotinate: tory tract irritation ritation

minalation	
Skin contact	: Symptoms: Skin irritation
Eye contact	: Symptoms: Severe irritation
Ingestion	: Symptoms: Gastrointestinal disturbance, bleeding, hyperten-
	sion, Kidney disorders



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SECTION 12: Ecological information

12.1 Toxicity

Components:		
2-Pyrrolidone: Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 4,600 - 10,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): 22.2 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 : > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209
Benzyl alcohol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
1-deoxy-1-(methylamino)-D-չ Toxicity to fish	glu :	Icitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: LC50 (Lepomis macrochirus (Bluegill sunfish)): 28 mg/l Exposure time: 96 h Method: FDA 4.11



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				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 (Selenastru Exposure time: 12	um capricornutum (green algae)): 96 mg/l 2 d
	L-Ment	hol:			
	Toxicity	-	:	Exposure time: 96	(zebra fish)): 15.6 mg/l 5 h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): 26.6 mg/l 3 h 67/548/EEC, Annex V, C.2.
	Toxicity plants	v to algae/aquatic	:	Exposure time: 72	mus subspicatus (green algae)): 21.4 mg/l 2 h 67/548/EEC, Annex V, C.3.
				Exposure time: 72	smus subspicatus (green algae)): 9.65 mg/l 2 h 67/548/EEC, Annex V, C.3.
	Toxicity	to microorganisms	:	EC50 : 237 mg/l Exposure time: 96 Test Type: Respir Method: OECD Te	ation inhibition of activated sludge
	Propan	n-2-ol:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 9,640 mg/l 3 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10,000 mg/l I h
	Toxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1,050 mg/l 5 h

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12.2 Pe	rsistence and degradabi	у	
<u>Co</u>	mponents:		
	Pyrrolidone: degradability	: Result: Readily biodegradable. Remarks: Based on data from similar materials	
Be	nzyl alcohol:		
Bic	degradability	: Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d	
1-c	leoxy-1-(methylamino)-D	Jucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicol	tinate:
Sta	bility in water	: Hydrolysis: 0 %(28 d)	
L-N	Menthol:		
Bic	odegradability	 Result: Readily biodegradable. Biodegradation: 64 % Exposure time: 28 d Method: OECD Test Guideline 301D 	
Pro	opan-2-ol:		
Bic	degradability	: Result: rapidly degradable	
BC	D/COD	: BOD: 1.19 (BOD5) COD: 2.23 BOD/COD: 53 %	
12.3 Bio	paccumulative potential		
<u>Co</u>	mponents:		
2-F	Pyrrolidone:		
	rtition coefficient: n- anol/water	: log Pow: -0.71 Method: OECD Test Guideline 107	
Pa	nzyl alcohol: rtition coefficient: n- anol/water	: log Pow: 1.05	
		lucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicol	tinate:
	rtition coefficient: n- anol/water	: log Pow: 1.34	
L-N	lenthol:		
Bic	accumulation	 Species: Cyprinus carpio (Carp) Exposure time: 6 Weeks Bioconcentration factor (BCF): 0.5 - 15 Method: OECD Test Guideline 305 	



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			Remarks: Based	on data from similar materials
	tition coefficient: n- anol/water	:	log Pow: 3.15	
Par	pan-2-ol: tition coefficient: n- anol/water	:	log Pow: 0.05	
12.4 Mo	bility in soil			
<u>Cor</u>	nponents:			
Dist	eoxy-1-(methylamino)-E ribution among environ- ntal compartments	-		3-(perfluoromethyl)anilino]nicotinate:
12.5 Res	sults of PBT and vPvB a	asse	ssment	
	<u>duct:</u> essment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 End	docrine disrupting prop	ertie	es	
Pro	duct:			
Ass	essment	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
12 7 Oth	er adverse effects			
	data available			
SECTIC	ON 13: Disposal consi	idera	ations	
13.1 Wa	ste treatment methods			
	duct	:	According to the are not product s Waste codes sho discussion with th	cordance with local regulations. European Waste Catalogue, Waste Codes pecific, but application specific. buld be assigned by the user, preferably in the waste disposal authorities. f waste into sewer.
Cor	taminated packaging	:	Empty containers dling site for recy Empty containers Do not pressurize	s should be taken to an approved waste han-



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				may explode and cause injury and/or death. pecified: Dispose of as unused product.	
SECTIO	N 14: Transport infor	mat	ion		
14.1 UN n	umber				
ADN		:	UN 1993		
ADR		:	UN 1993		
RID		:	UN 1993		
IMDO	3	:	UN 1993		
ΙΑΤΑ		:	UN 1993		
14.2 UN p	oroper shipping name				
ADN		:	FLAMMABLE LIC (Propan-2-ol)	QUID, N.O.S.	
ADR		:	FLAMMABLE LIC (Propan-2-ol)	QUID, N.O.S.	
RID		:	FLAMMABLE LIC (Propan-2-ol)	QUID, N.O.S.	
IMDO	3	:	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol)		
ΙΑΤΑ		:	: Flammable liquid, n.o.s. (Propan-2-ol)		
14.3 Tran	sport hazard class(es)				
			Class	Subsidiary risks	
ADN		:	3		
ADR		:	3		
RID		:	3		
IMDO	6	:	3		
ΙΑΤΑ		:	3		
14.4 Pack	king group				
Class	ing group sification Code rd Identification Number Is	: :	III F1 30 3		
Class Haza Labe	ing group sification Code rd Identification Number	: : : : : : : : : : : : : : : : : : : :	III F1 30 3 (D/E)		

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	Classif	g group ication Code I Identification Number		III F1 30 3	
	IMDG Packing Labels EmS C	g group ode	:	III 3 F-E, <u>S-E</u>	
	aircraft Packing	g instruction (cargo	:	366 Y344 III Flammable Liquic	ls
	Packing ger airc Packing	Passenger) g instruction (passen- craft) g instruction (LQ) g group	:	355 Y344 III Flammable Liquic	łs
14.5	5 Enviro	nmental hazards			
	ADN Enviror	nmentally hazardous	:	no	
	ADR Enviror	nmentally hazardous	:	no	
	RID Enviror	nmentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	
14.6	Specia	al precautions for use	r		

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

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)

: Conditions of restriction for the following entries should be considered:

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				Number on list 3	3
				here according t in the regulation use/purpose or t restriction. Pleas tions in correspondetermine wheth	mixture(s) are listed to their appearance , irrespective of their the conditions of the se refer to the condi- onding Regulation to her an entry is appli- cing on the market or
	REACH Candidate list o ern (SVHC) for Author	of substances of very hig isation	h :	Not applicable	
The	Persistent Órganic Pol	lutants Regulations (reta as amended for Great E		Not applicable	
Reģi	ulation (EC) No 1005/2 the ozone layer	009 on substances that o	de- :	Not applicable	
UK F		ces subject to authorisati	on :	Not applicable	
ĠB E	,	zardous chemicals - Pric	or :	Not applicable	
		lazards Regulations 201	5 (COMA	,	Quantity 2
H2		ACUTE TOXIC		Quantity 1 50 t	Quantity 2 200 t
P5c		FLAMMABLE LIC	QUIDS	5,000 t	50,000 t

Other regulations:

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

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

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

:

SECTION 16: Other information

Other information

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

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		lines.			
Full te	xt of H-Statements				
H225		: Highly flammal	ble liquid and vapour.		
H301					
H302		: Harmful if swal			
H315		: Causes skin iri			
H318		: Causes seriou	s eye damage.		
H319		: Causes seriou			
H330		: Fatal if inhaled			
H332		: Harmful if inha	led.		
H335		: May cause res	piratory irritation.		
H336			wsiness or dizziness.		
H360F	D		ertility. May damage the unborn child.		
H372			ge to organs through prolonged or repeated		
		exposure.			
H411		: Toxic to aquati	c life with long lasting effects.		
Full te	xt of other abbrevia	ations			
Acute ⁻	Τοχ	: Acute toxicity			
	c Chronic		onic) aquatic hazard		
Eye Da		: Serious eye da			
Eye Irri		: Eye irritation			
Flam. L		: Flammable liqu	uids		
Repr.	•	: Reproductive t			
Skin Irr	rit.	: Skin irritation			
STOT	RE	: Specific target	organ toxicity - repeated exposure		
STOT	SE		Specific target organ toxicity - single exposure		
GB EH	40		L - Workplace Exposure Limits		
GB EH	40 / TWA		osure limit (8-hour TWA reference period)		
GB EH	40 / STEL	: Short-term exp	osure limit (15-minute reference period)		
Waterv Road; ing of I tion (E of the Europe associa cy Sch sociate borator Transp rying D tional (IMDG - Indus	vays; ADR - Agreen AlIC - Australian Inv Materials; bw - Body C) No 1272/2008; C German Institute for ean Chemicals Agen ated with x% respon edule; ENCS - Exist ed with x% growth r ry Practice; IARC - I oort Association; IBC Dangerous Chemicals Civil Aviation Organi - International Maritir strial Safety and Hea	ment concerning the entory of Industrial Ch weight; CLP - Classif MR - Carcinogen, Mu Standardisation; DSL cy; EC-Number - Euro se; ELx - Loading rate ing and New Chemica ate response; GHS - international Agency for - International Code f s in Bulk; IC50 - Half r zation; IECSC - Inver me Dangerous Goods; alth Law (Japan); ISO	national Carriage of Dangerous Goods by Inland International Carriage of Dangerous Goods by memicals; ASTM - American Society for the Test- fication Labelling Packaging Regulation; Regula- tagen or Reproductive Toxicant; DIN - Standard - Domestic Substances List (Canada); ECHA - opean Community number; ECx - Concentration associated with x% response; EmS - Emergen- al Substances (Japan); ErCx - Concentration as- Globally Harmonized System; GLP - Good La- or Research on Cancer; IATA - International Air or the Construction and Equipment of Ships car- naximal inhibitory concentration; ICAO - Interna- tory of Existing Chemical Substances in China; IMO - International Maritime Organization; ISHL - International Organisation for Standardization; O - Lethal Concentration to 50 % of a test popula-		

tion; 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



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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 Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Classification of the mixture:

Classification procedure:

Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Calculation method
Acute Tox. 2	H330	Calculation method
Eye Dam. 1	H318	Calculation method
Repr. 1B	H360FD	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 3	H412	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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