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

1.1	Product identifier Trade name	:	MOBIHEL HYDRO Base MIX
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Coatings and paints, thinners, paint removers
	Recommended restrictions on use	:	Reserved for industrial and professional use.
1.3	Details of the supplier of the	sa	fety data sheet
	Company	:	KANSAI HELIOS Slovenija d.o.o. Količevo 65 1230 Domžale Slovenia
	Telephone Company	:	386 (1) 722 4383
	Telefax Company	:	386 (1) 722 4310
	Responsible/issuing person	:	386 (1) 722 4383 productsafety@kansai-helios.si

1.4 Emergency telephone number

Call 999 (or 112) for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892 0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

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)

Serious eye damage, Category 1	H318: Causes serious eye damage.
Reproductive toxicity, Category 1B	H360D: May damage the unborn child.

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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	:	H318 Causes serious eye damage. H360D May damage the unborn child.
Precautionary statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: butan-1-ol N-methyl-2-pyrrolidone

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
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	Index-No.		
	Registration number		
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
1-butanol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory sys- tem)	>= 3 - < 10
1-methyl-2-pyrrolidone	872-50-4 212-828-1 606-021-00-7 01-2119472430-46	Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360D STOT SE 3; H335 (Respiratory sys- tem) 	>= 1 - < 10
dimethylaminoethanol	108-01-0 203-542-8 603-047-00-0 01-2119492298-24	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory sys- tem) $\overline{}$ specific concentra- tion limit STOT SE 3; H335 >= 5 %	>= 0,1 - < 1
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	>= 0,0025 - < 0,025

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				Aquatic Chronic 2; H411 specific concentra- tion limit Skin Sens. 1; H317 >= 0,05 %	
2-meth	ıyl-2H-isothiazol-3-c	ne	2682-20-4 220-239-6 613-326-00-9 01-2120764690-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 Specific concentra- tion limit Skin Sens. 1A; H317 >= 0,0015 %	>= 0,0002 - < 0,0015
isothia	e of 5-chloro-2-meth zol-3-one and 2-me zol-3-one (3:1)		55965-84-9 613-167-00-5 01-2120764691-4	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H330 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 Specific concentra- tion limit	>= 0,0002 - < 0,0015

Skin Corr. 1C;

H314

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			>= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %	
Subst	tances with a workp	ace exposure limit :		
alumi	nium	7429-90-5	Flam. Sol. 1; H228	>= 1 - < 10
titaniu	um dioxide	231-072-3 013-002-00- 01-2119529 13463-67-7		>= 1 - < 10
		236-675-5 01-2119489	379-17	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	Keep respiratory tract clear. Do NOT induce vomiting.

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		Never give anyth	or alcoholic beverages. ing by mouth to an unconscious person. sist, call a physician. ediately to hospital.
4.2 Most i	mportant symptom	is and effects, both acut	e and delayed
Risks :		: Causes serious e May damage the	, ,
4.3 Indication of any immediate med Treatment :		ate medical attention an : Treat symptoma	•

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	substance or mixture
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa- rately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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6 2 Enviro	nmental precautio	ne	

6.2 Environmental precautions

Environmental precautions	 Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for cor	ntainment and cleaning up
Methods for cleaning up	: Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13).

Keep in suitable, closed containers for disposal.

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

	Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
	Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
	Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
7.2	Conditions for safe storage, i	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
	Further information on stor- age stability	:	No decomposition if stored and applied as directed.
7.3	Specific end use(s)		
	Specific use(s)	:	For further information, refer to the product technical data

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sheet.

Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m3	GB EH40			
		nose for which there	bed through the skin. The a are concerns that dermal a				
		STEL	50 ppm 246 mg/m3	GB EH40			
		nose for which there	bed through the skin. The a are concerns that dermal a				
		TWA	20 ppm 98 mg/m3	2000/39/EC			
		Further information: Identifies the possibility of significant uptake through the skin, Indicative					
		STEL	50 ppm 246 mg/m3	2000/39/EC			
	Further inform skin, Indicativ		possibility of significant upt	ake through the			
butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m3	GB EH40			
		nose for which there	bed through the skin. The a are concerns that dermal a				
aluminium	7429-90-5	TWA (inhalable dust)	10 mg/m3	GB EH40			
		TWÁ (Respirable dust)	4 mg/m3	GB EH40			
N-methyl-2- pyrrolidone	872-50-4	TWÁ	10 ppm 40 mg/m3	GB EH40			
	Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.						
		STEL	20 ppm 80 mg/m3	GB EH40			
	Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.						

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		TWA	10 ppm	2009/161/EU
			40 mg/m3	
			possibility of significant upta	ke through the
	skin, Indicativ	e		-
		STEL	20 ppm	2009/161/EU
			80 mg/m3	
	Further inform skin, Indicativ		possibility of significant upta	ke through the
		TWA	10 ppm	2004/37/EC
			40 mg/m3	
	Further inform	nation: Skin, Carcino	gens or mutagens	•
		STEL	20 ppm	2004/37/EC
			80 mg/m3	
	Further inform	nation: Skin, Carcino	gens or mutagens	
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40
2-	108-01-0	TWA	2 ppm	GB EH40
dimethylaminoeth- anol			7,4 mg/m3	
		STEL	6 ppm	GB EH40
			22 mg/m3	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
2-butoxyethanol	Workers	Inhalation	Long-term systemic effects	98 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	1091 mg/m3
	Workers	Inhalation	Acute local effects	246 mg/m3
	Consumers	Inhalation	Long-term systemic effects	59 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	426 mg/m3
	Consumers	Inhalation	Acute local effects	147 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	125 mg/kg bw/day
	Workers	Dermal	Acute systemic ef- fects	89 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	75 mg/kg bw/day

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		Consumers	Dermal	Acute systemic ef- fects	89 mg/kg bw/day	
		Consumers	Oral	Long-term systemic effects	6,3 mg/kg bw/day	
		Consumers	Oral	Acute systemic ef- fects	26,7 mg/k bw/day	
butan-1-o	l	Workers	Inhalation	Long-term local ef- fects	310 mg/m	
		Consumers	Inhalation	Long-term systemic effects	55,357 mg	
		Consumers	Inhalation	Long-term local ef- fects	155 mg/m	
		Consumers	Dermal	Long-term systemic effects	3,125 mg/ bw/day	
		Consumers	Oral	Long-term systemic effects	1,562 mg/ bw/day	
aluminiur	m	Workers	Inhalation	Long-term systemic effects	3,72 mg/m	
		Workers	Inhalation	Long-term local ef- fects	3,72 mg/m	
		Consumers	Oral	Long-term systemic effects	3,95 mg/k bw/day	
N-methyl pyrrolido		Workers	Inhalation	Long-term local ef- fects	40 mg/m3	
		Workers	Inhalation	Long-term systemic effects	14,4 mg/m	
		Consumers	Inhalation	Long-term systemic effects	3,6 mg/m3	
		Workers	Dermal	Long-term systemic effects	4,8 mg/kg bw/day	
		Consumers	Inhalation	Long-term local ef- fects	4,5 mg/m3	
		Consumers	Dermal	Long-term systemic effects	2,4 mg/kg bw/day	
		Consumers	Oral	Long-term systemic effects	0,85 mg/kg bw/day	
titanium	dioxide	Workers	Inhalation	Long-term local ef- fects	10 mg/m3	
		Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day	
2- dimethyla	aminoethanol	Workers	Inhalation	Long-term systemic effects	7,4 mg/m3	
		Workers	Inhalation	Acute local effects	22 mg/m3	
		Workers	Dermal	Acute local effects	0,08 mg/ci	
		Workers	Dermal	Long-term systemic effects	1,04 mg/kg bw/day	
		Workers	Dermal	Acute systemic ef- fects	5 mg/kg bw/day	
1,2-benz 3(2H)-on	isothiazol- e	Workers	Inhalation	Long-term systemic effects	6,81 mg/m	
-		Workers	Dermal	Long-term systemic	0,966 mg/	

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			effects	bw/day
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg bw/day
reaction mass of: 5- chloro-2- methyl-4- isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	Consumers	Inhalation	Acute local effects	0,04 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,02 mg/m3
	Workers	Inhalation	Acute local effects	0,04 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,02 mg/m3
	Consumers	Oral	Long-term systemic effects	0,09 mg/kg bw/day
	Consumers	Oral	Acute systemic ef- fects	0,11 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
2-butoxyethanol	Soil	2,33 mg/kg dry
		weight (d.w.)
	Marine water	0,88 mg/l
	Fresh water	8,8 mg/l
	Fresh water sediment	34,6 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	463 mg/l
	Intermittent use/release	9,1 mg/l
butan-1-ol	Soil	0,0166 mg/kg dry
		weight (d.w.)
	Marine water	0,0082 mg/l
	Fresh water	0,082 mg/l
	Marine sediment	0,0324 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0,324 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	2476 mg/l
	Intermittent use/release	2,25 mg/l
aluminium	Sewage treatment plant	20 mg/l
N-methyl-2-pyrrolidone	Soil	0,07 mg/kg dry
		weight (d.w.)
	Marine water	0,025 mg/l
	Fresh water	0,25 mg/l
	Fresh water sediment	1,09 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	10 mg/l
	Intermittent use/release	5 mg/l
	Marine sediment	0,109 mg/kg dry
		weight (d.w.)

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titaniu	ım dioxide	Soil	100 mg/kg dr weight (d.w.)
		Marine water	0,0184 mg/l
		Fresh water	0,184 mg/l
		Marine sediment	100 mg/kg di weight (d.w.)
		Fresh water sediment	1000 mg/kg o weight (d.w.)
		Sewage treatment plant	100 mg/l
		Intermittent use/release	0,193 mg/l
2-dim	ethylaminoethanol	Soil	0,0177 mg/kg weight (d.w.)
		Marine water	0,00661 mg/
		Fresh water	0,0661 mg/l
		Fresh water sediment	0,0529 mg/kg weight (d.w.)
		Sewage treatment plant	10 mg/l
		Intermittent use/release	0,0661 mg/l
1,2-be	enzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l
	\$ F	Intermittent use/release	0,0011 mg/l
		Marine water	0,000403 mg
		Sewage treatment plant	1,03 mg/l
		Fresh water sediment	0,0499 mg/kg weight (d.w.)
		Marine sediment	0,00499 mg/ dry weight (d
		Soil	3 mg/kg dry weight (d.w.)
methy	on mass of: 5-chloro-2- /l-4-isothiazolin-3-one and thyl-2H -isothiazol-3- one	Soil	0,01 mg/kg d weight (d.w.)
		Marine water	0,00339 mg/l
		Fresh water	0,00339 mg/l
		Marine sediment	0,027 mg/kg
			weight (d.w.)
		Fresh water sediment	0,027 mg/kg weight (d.w.)
		Sewage treatment plant	0,23 mg/l
		Intermittent use/release	0,00339 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection	: Equipment should conform to EN 166
	Eye wash bottle with pure water
	Tightly fitting safety goggles
	Wear face-shield and protective suit for abnormal processing
	problems.

Hand protection

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Gl	oves	butyl-rubber Viton® (> 0,6	r (> 0,1 mm; < 60 min); DIN EN374 (> 0,6 mm; < 240 min); DIN EN374 6 mm; < 240 min); DIN EN374 (> 0,1 mm; < 240 min); DIN EN374
Re	emarks	with the produce Please observe breakthrough t gloves. Also ta tions under wh	for a specific workplace should be discussed cers of the protective gloves. e the instructions regarding permeability and ime which are provided by the supplier of the ke into consideration the specific local condi- ich the product is used, such as the danger of and the contact time.
Skin a	and body protection		thing protection according to the amount and concen- angerous substance at the work place.
Respi	ratory protection	tilation is provi	y protection unless adequate local exhaust ven- ded or exposure assessment demonstrates that within recommended exposure guidelines.
Fil	ter type	: Combined part	ticulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	in accordance with the product description
Odour	:	solvent-like
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	0,0 °C
Boiling point/boiling range	:	(calculation method (principal components, lowest value)) 100 °C (calculation method (principal components, lowest value))
Flash point	:	66 °C
Flammability (solid, gas)	:	Static-accumulating flammable liquid., Combustible Solids
Vapour pressure	:	23 hPa (calculation method (principal components, highest value)) (20 °C)

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	Relativ	e vapour density	:	No data available	
	Relativ	e density	:	No data available	
	Density	ý	:	0,99 - 1,213 g/cm3	
	Solubil Wat	ity(ies) ter solubility	:	immiscible, partly so	oluble
	Solu	ubility in other solve	ents :	Description: miscibl	e with most organic solvents
	Partitio octano	n coefficient: n- l/water	:	No data available	
	Decom	position temperatu	re :		f stored and applied as directed. position products formed under fire condi-
	Viscosi Visc	ity cosity, kinematic	:	> 20,5 mm2/s (40 °	C)
	Flow tir	me	:	35 - 45 s at 20 °C Cross section: 4 mr Method: DIN4	n
	Explos	ive properties	:	Not applicable	
	Oxidizi	ng properties	:	Not applicable	
9.2 (nformation a available	:	(Directive 2004/42/1 410 g/l	EC)

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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Vapours may form explosive mixture with air.

10.4 Conditions to avoid

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Cond	litions to avoid	: He	eat, flames and sparks.
	mpatible materials rials to avoid	: In	compatible with strong acids and bases.
10.6 Haza	rdous decomposit	on product	s
Heati	uate ventilation is re ng can release vapo on monoxide, carbor	urs which ca	an be ignited. I unburned hydrocarbons (smoke).
SECTION	N 11: Toxicologic	l informat	ion
	<i></i>		
	mation on toxicolo	gical effects	3
	e toxicity lassified based on a	ciloble info	rmation
Prod			maion.
	e oral toxicity		ute toxicity estimate: > 2.000 mg/kg thod: Calculation method
Acute	e inhalation toxicity	Ex Te:	ute toxicity estimate: > 20 mg/l posure time: 4 h st atmosphere: vapour thod: Calculation method
<u>Com</u>	ponents:		
2-but	toxyethanol:		
Acute	e oral toxicity	Me	ute toxicity estimate: 1.200 mg/kg thod: Acute toxicity estimate according to Regulation (EC) . 1272/2008
Acute	e inhalation toxicity	Ex Te: As:	50 (Rat): 450 ppm posure time: 4 h st atmosphere: vapour sessment: The component/mixture is toxic after short term alation.
			ute toxicity estimate: 3 mg/l st atmosphere: vapour
huta	n-1-ol:		
	e oral toxicity		sessment: The component/mixture is moderately toxic after gle ingestion.
		LD	50 Oral (Rat): > 2.000 mg/kg
Acute	e inhalation toxicity	: LC	50 (Rat): > 5 mg/l

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



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			Test atmospher	e: vapour
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
N-me	thyl-2-pyrrolidone:			
	oral toxicity		LD50 Oral (Rat): >= 4.150 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): >= Exposure time: Test atmospher	4 h
Acute	dermal toxicity	:	LD50 Dermal (F	Rat): >= 5.000 mg/kg
2-dim	ethylaminoethano	I:		
	inhalation toxicity	:	Assessment: TI inhalation.	ne component/mixture is toxic after short terr
1,2-be	enzisothiazol-3(2H))-one:		
Acute	oral toxicity	:	Assessment: TI single ingestion	ne component/mixture is moderately toxic aft
2-met	thylisothiazol-3(2H)-one:		
Acute	oral toxicity	:	Assessment: TI gestion.	ne component/mixture is toxic after single in-
Acute	inhalation toxicity	:	Test atmosphere Assessment: The term inhalation.	ne component/mixture is highly toxic after sh
Acute	dermal toxicity	:	Assessment: TI tact with skin.	ne component/mixture is toxic after single co
-	corrosion/irritation			
	assified based on a	vailable	nformation.	
Produ Rema			Extremely corre	sive and destructive to tissue.
1.GIIId	and	•		
<u>Comp</u>	oonents:			
2-but	oxyethanol:			
Resul	t	:	irritating	
butan	1-1-ol:			
Resul	t	:	irritating	

N-methyl-2-pyrrolidone:

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Resu	lt	: irritating
1,2-b Resu	enzisothiazol-3(2H ^{It})-one: : irritating
2-me Resu	thylisothiazol-3(2H It)-one: : Corrosive after 3 minutes to 1 hour of exposure
	eus eye damage/ey es serious eye dam	
<u>Prod</u> Rema		: May cause irreversible eye damage.
<u>Com</u>	ponents:	
2-but Resu	oxyethanol: It	: Eye irritation
butar Resu	n-1-ol: It	: Corrosive
N-me Resu	thyl-2-pyrrolidone It	: Eye irritation
1,2-b Resu	enzisothiazol-3(2H It)-one: : Corrosive
Resp	iratory or skin sen	sitisation
	sensitisation lassified based on a	vailable information.
-	iratory sensitisatic lassified based on a	n vailable information.
Com	ponents:	
1,2-b Resu	enzisothiazol-3(2H ^{It}	 Probability or evidence of skin sensitisation in humans
2-me Resu	thylisothiazol-3(2H It)-one: : Probability or evidence of skin sensitisation in humans
	cell mutagenicity lassified based on a	vailable information.

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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

May damage the unborn child.

Components:

N-methyl-2-pyrrolidone:

Reproductive toxicity - As-	:	Clear evidence of adverse effects on sexual function and fertil-
sessment		ity,and/or on development, based on animal experiments

STOT - single exposure

Not classified based on available information.

Components:

butan-1-ol: Assessment	:	May cause drowsiness or dizziness.	
Assessment	:	May cause respiratory irritation.	
N-methyl-2-pyrrolidone: Assessment	:	May cause respiratory irritation.	
2-dimethylaminoethanol: Assessment	:	May cause respiratory irritation.	
STOT - repeated exposure Not classified based on available information.			

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-butoxyethanol:

Toxicity to fish

: LC50 (Fish): >= 1.700 mg/l Exposure time: 96 h

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	oxicity to daphnia and oth uatic invertebrates	ner :	LC50 (Daphnia Exposure time	a (water flea)): > 1.000 mg/l : 48 h
Тс	exicity to microorganisms	3 :	EC50 (Bacteria	a): > 5.000 mg/l
bı	ıtan-1-ol:			
Тс	oxicity to fish	:	LC50 (Fish): >	1.000 mg/l
	oxicity to daphnia and oth uatic invertebrates	ner :	LC50 (Daphnia	a (water flea)): > 1.000 mg/l
Тс	exicity to microorganisms	S :	EC50 (Bacteria	a): > 1.000 mg/l
1,	2-benzisothiazol-3(2H)∙	-one:		
Ec	otoxicology Assessme	ent		
CI	nronic aquatic toxicity	:	Toxic to aquat	c life with long lasting effects.
2-	methylisothiazol-3(2H)	-one:		
	Factor (Acute aquatic to ty))X- :	10	
	Factor (Chronic aquatic kicity)	:	1	
Ed	otoxicology Assessm	ent		
Ac	cute aquatic toxicity	:	Very toxic to a	quatic life.
	action mass of: 5-chlo ne (3:1):	ro-2- m	ethyl-4-isothia	zolin-3-one and 2-methyl-2H -isothiazol-3-
Тс	exicity to fish	:	LC50 (Salvelin Exposure time	us namaycush (lake trout)): >= 10,85 mg/l : 96 h
	oxicity to algae/aquatic ants	:	LC50 (algae): Exposure time	
			LC50 (algae): Exposure time	
	Factor (Acute aquatic to ty))X- :	100	
	Factor (Chronic aquatic kicity)	:	100	

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12.2 Persistence and degradability

Components:

2-butoxyethanol: Biodegradability

Biodegradability	:	Result: Biodegradable
Stability in water	:	Remarks: Hydrolyses slowly.
Photodegradation	:	Remarks: Decomposes slowly in contact with light.
2-methylisothiazol-3(2H)-one	:	
	:	Result: Biodegradable
12.3 Bioaccumulative potential		
Components:		
2-butoxyethanol:		
Partition coefficient: n- octanol/water	:	log Pow: 0,81 (20 °C)
butan-1-ol:		
Partition coefficient: n- octanol/water	:	log Pow: 0,785
N-methyl-2-pyrrolidone:		
Partition coefficient: n- octanol/water	:	log Pow: -0,46
2-dimethylaminoethanol:		
•	:	log Pow: -0,55
1,2-benzisothiazol-3(2H)-one:	:	
Partition coefficient: n- octanol/water	:	log Pow: 1,3
12.4 Mobility in soil		
Components:		
2-butoxyethanol:		
Mobility	:	Medium: Air Content: 1 %
	:	Medium: Water Content: 47 %

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		:	Medium: Soil Content: 52 %	
12.5 Resu	Ilts of PBT and vPvI	B asse	ssment	
<u>Prod</u>	uct:			
Asse	ssment	:	to be either persiste	ture contains no components considered nt, bioaccumulative and toxic (PBT), or very bioaccumulative (vPvB) at levels of
Com	ponents:			
2-but	oxyethanol:			
Asse	ssment	:	Substance is not pe	rsistent, bioaccumulative, and toxic (PBT).
12.6 Othe	r adverse effects			
Prod	uct:			
Endo tial	crine disrupting poter	ז- :	ered to have endocu REACH Article 57(f)	ure does not contain components consid- rine disrupting properties according to or Commission Delegated regulation Commission Regulation (EU) 2018/605 at gher.
Addit matic	ional ecological infor- n	· :	No data available	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

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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 pr	oper shipping nar	ne	
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 Trans	port 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 Packi	ng 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 ((Cargo)	: Not regulated	as a dangerous good
IATA ((Passenger)	: Not regulated	as a dangerous good
-	onmental hazards gulated as a dange	rous good	
-	al precautions for	user	
	port in bulk accor	-	rpol and the IBC Code

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

Relevant EU provisions transposed through retained EU law

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ι	JK REACH List of restricti	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 N-methyl-2-pyrrolidone (Number on list 72, 71, 30)	
	JK REACH Candidate list concern (SVHC) for Autho	of substances of very high risation	:	N-methyl-2-pyrrolidone
F		Ilutants Regulations (retain 1 as amended for Great Bri		Not applicable
	Regulation (EC) No 1005/ Dete the ozone layer	2009 on substances that de)- :	Not applicable
	JK REACH List of substar Annex XIV)	nces subject to authorisation	n :	Not applicable
	GB Export and import of h nformed Consent (PIC) R	azardous chemicals - Prior egulation	:	Not applicable
	Control of Major Accident 2015 (COMAH)	Hazards Regulations	No	t applicable
١	/olatile organic compound			ds (VOC) content: 410 g/l

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.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H228	:	Flammable solid.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal in contact with skin.
H311	:	Toxic in contact with skin.

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H312 H314 H315		: Causes seve : Causes skin				
H317 H318 H319		: Causes serio : Causes serio	n allergic skin reaction. us eye damage. us eye irritation.			
H330 H331 H335		: Fatal if inhale : Toxic if inhale : May cause re				
H336 H360[H400)		owsiness or dizziness. the unborn child. aquatic life.			
H410 H411		: Very toxic to : Toxic to aqua	aquatic life with long lasting effects. tic life with long lasting effects.			
	ext of other abbrev					
Acute		: Acute toxicity				
	c Acute		cute) aquatic hazard			
Eye D	c Chronic	: Serious eye d	nronic) aquatic hazard			
Eye D Eye Iri		: Eye irritation	lannage			
Flam.		: Flammable li	nuide			
Flam.			Flammable solids			
Repr.	001.		Reproductive toxicity			
Skin C	orr		Skin corrosion			
Skin Ir		: Skin irritation				
Skin S		: Skin sensitisa	ation			
STOT			et organ toxicity - single exposure			
2000/3		: Europe. Com	mission Directive 2000/39/EC establishing a first ve occupational exposure limit values			
2004/3	37/EC		ctive 2004/37/EC on the protection of workers related to exposure to carcinogens or mutagens			
2009/1	161/EU	a third list of i implementation	IMISSION DIRECTIVE 2009/161/EU establishing ndicative occupational exposure limit values in on of Council Directive 98/24/EC and amending Directive 2000/39/EC			
GB EF	140	: UK. EH40 W	EL - Workplace Exposure Limits			
GB EH	140 BAT		I monitoring guidance values			
	39/EC / TWA	: Limit Value -				
	39/EC / STEL	: Short term ex				
	37/EC / STEL	: Short term ex				
2004/3	37/EC / TWA	: Long term ex				
2009/2	161/EU / TWA	: Limit Value -				
2009/1	161/EU / STEL	: Short term ex				
	140 / TWA		posure limit (8-hour TWA reference period)			
GB EH	140 / STEL	: Short-term ex	posure limit (15-minute reference period)			

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard

SAFETY DATA SHEET According to REACH Regulation (EC) No 190

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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

Classification of the	e mixture:	Classification procedure:
Eye Dam. 1	H318	Calculation method
Repr. 1B	H360D	Calculation method

400929; 400996; 401107; 401194; 401196; 470600; 470601; 470608; 470610; 470612; 470613; 470614; 470616; 470617; 470618; 470619; 470621; 470622; 470625; 470626; 470627; 470628; 470629; 470630; 470631; 470632; 470633; 470641; 470642; 470643; 470644; 470645; 470646; 470651; 470652; 470661; 470662; 470663; 470665; 470700; 470701; 470702; 470703; 470704; 470705; 470706; 470708; 470715; 470720; 470721; 470722; 470730; 470740; 470750; 470751; 470752; 470753; 470760; 470770; 470771; 470772; 470780; 470781; 470795; 470796; 470800; 470801; 470802; 470803; 470804; 470805

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

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