according to Regulation (EC) No. 1907/2006



MOBIHEL 2K HARDENER 1100

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

1.1 Product identifier	
Product code	: 41672222
Trade name	: MOBIHEL 2K HARDENER 1100
Unique Formula Identifier (UFI)	: HDK0-X06P-K00C-DTM1
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: PC9a Coatings and paints, thinners, paint removers
Recommended restrictions on use	: Reserved for industrial and professional use.
1.3 Details of the supplier of the	ne safety data sheet
Company	: Helios TBLUS d.o.o. Količevo 65
	1230 Domžale Slovenia
Telephone Company	
Telephone Company Telefax Company	Slovenia
	Slovenia : 386 (1) 722 4383 : 386 (1) 722 4310

1.4 Emergency telephone number

Call 999 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)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

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	Acute t	oxicity, Category 4			H332: Harmful if inhaled.
	Skin sensitisation, Category 1				H317: May cause an allergic skin reaction.
		c target organ toxici , Category 3, Centra			H336: May cause drowsiness or dizziness.
		c target organ toxici , Category 3, Respi			H335: May cause respiratory irritation.
	Long-term (chronic) aquatic hazard, Cat- egory 3		ard, Cat-	H412: Harmful to aquatic life with long lasting ef- fects.	
2.2 L	2.2 Label elements				
	Labelli	ng (REGULATION	(EC)	No 1272/2	008)
	Hazard	pictograms	:		
	Signal	word	:	Warning	
	Hazard	statements	:	H317 M H332 H H335 M H336 M	lammable liquid and vapour. lay cause an allergic skin reaction. larmful if inhaled. lay cause respiratory irritation. lay cause drowsiness or dizziness. larmful to aquatic life with long lasting effects.
	Supple Statem	mental Hazard ents	:	EUH066 dryness d	Repeated exposure may cause skin or cracking.
	Precau	tionary statements	:	Preventi	on:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Hexamethylene-di-isocyanate, polymer n-butyl acetate

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2-butoxyethyl acetate Hydrocarbons, C9 aromatics

Additional Labelling

EUH204

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

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

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

CAS-No. C-No. Ndex-No. Registration number 8182-81-2 00-060-2 1-2119485796-17	Classification	Concentration (% w/w) >= 30 - < 50
ndex-No. Registration number 8182-81-2 00-060-2		· · ·
Registration number 8182-81-2 00-060-2		>= 30 - < 50
8182-81-2 00-060-2		>= 30 - < 50
00-060-2		
		~= 00 < 00
	Skin Sens. 1; H317	
12113403730 17	STOT SE 3; H335	
00.00.4		00 00
		>= 20 - < 30
	-	
1-2119485493-29		
	EUHU66	
12 07 2	Aguto Toy 1: U202	>= 10 - < 20
	-	>= 10 - < 20
	-	
	Acute 107. 4, 11312	
1 2110470112 47	Flam Lig 3: H226	>= 2,5 - < 10
		2 2,0 10
	-	
1-2119455851-35		
1 2110400001 00		
1	23-86-4)4-658-1)7-025-00-1 -2119485493-29 2-07-2)3-933-3)7-038-00-2 -2119475112-47	04-658-1 STOT SÉ 3; H336 07-025-00-1 (Central nervous system) 1-2119485493-29 EUH066 12-07-2 Acute Tox. 4; H302 03-933-3 Acute Tox. 4; H332 07-038-00-2 Acute Tox. 4; H312 1-2119475112-47 Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous

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	n mixture of ethylbe ne and p-xylene	enzene,	- 905-562-9 01-2119555267-33	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 10	
	it naphtha (petroleu Low boiling point n cified		64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2,5	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
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	:	Flush eyes with water as a precaution. 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 give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks	:	May cause an allergic skin reaction. Harmful if inhaled.
		May cause respiratory irritation.

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			iness or dizziness. re may cause skin dryness or cracking.
tion of any immedia	te me	dical attention and	special treatment needed
ment	:	Treat symptomation	cally.
I 5: Firefighting m	easur	es	
uishing media			
ble extinguishing med	lia :		
table extinguishing a	:	High volume wate	r jet
al hazards arising fro	om the	e substance or mix	cture
fic hazards during fire)- :	Do not allow run-o courses.	off from fire fighting to enter drains or water
dous combustion pro	od- :	No hazardous cor	nbustion products are known.
e for firefighters			
-	ent :	In the event of fire	e, wear self-contained breathing apparatus.
er information	:	must not be disch Fire residues and be disposed of in For safety reason rately in closed co	contaminated fire extinguishing water must accordance with local regulations. s in case of fire, cans should be stored sepa-
	20.08.2021 tion of any immedia nent 1 5: Firefighting media ble extinguishing media ble extinguishing media table extinguishing media table extinguishing media table extinguishing media table combustion protective equipmed of for firefighters al protective equipmed of the statement of the statement of the statement of the statement of the statement of the statement of the sta	20.08.2021 MATC GB / GB /	20.08.2021 MAT000416722 GB / EN May cause drowsi Repeated exposu tion of any immediate medical attention and ment : Treat symptomatic I 5: Firefighting measures uishing media ole extinguishing media : Alcohol-resistant f Carbon dioxide (C Dry chemical table extinguishing : High volume wate I hazards arising from the substance or mix fic hazards during fire- g : Do not allow run-c courses. dous combustion prod- : No hazardous cor e for firefighters al protective equipment : In the event of fire effighters er information : Collect contamina must not be disch Fire residues and be disposed of in For safety reasons rately in closed co

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	:	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.		
6.2 Environmental precautions				
Environmental precautions	:	Prevent product from entering drains.		

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			ner leakage or spillage if safe to do so. t contaminates rivers and lakes or drains inform uthorities.			
6.3 Metho	6.3 Methods and material for containment and cleaning up					
Metho	ods for cleaning up	sorbent mate miculite) and	age, and then collect with non-combustible ab- erial, (e.g. sand, earth, diatomaceous earth, ver- I place in container for disposal according to local gulations (see section 13).			
	ence to other sections: 7, 8, 11, 12 and					

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. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
	Advice on protection against : fire and explosion		Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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, in	clı	Iding any incompatibilities
	Requirements for storage : areas and containers		No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be care- fully resealed and kept upright to prevent leakage. 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.

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7.3 Specific end use(s)

Specific use(s)

: For further information, refer to the product technical data 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	
Hexamethylene-di- isocyanate, poly- mer	28182-81-2	TWA	0,02 mg/m3 (NCO)	GB EH40	
	Further inform	nation: Capable of ca	ausing occupational asthma.		
		STEL	0,07 mg/m3 (NCO)	GB EH40	
	Further inform	nation: Capable of ca	using occupational asthma.		
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40	
		STEL	200 ppm 966 mg/m3	GB EH40	
		STEL	150 ppm 723 mg/m3	2019/1831/E U	
	Further inform	information: Indicative			
		TWA	50 ppm 241 mg/m3	2019/1831/E U	
	Further inform	ation: Indicative		•	
2-butoxyethyl ace- tate	112-07-2	TWA	20 ppm 133 mg/m3	2000/39/EC	
	Further inform skin, Indicativ		possibility of significant uptal	ke through the	
		STEL	50 ppm 333 mg/m3	2000/39/EC	
	Further inform skin, Indicativ		possibility of significant uptal	ke through the	
		TWA	20 ppm 133 mg/m3	GB EH40	
		nose for which there	bed through the skin. The as are concerns that dermal ab		
		STEL	50 ppm 332 mg/m3	GB EH40	
			bed through the skin. The as are concerns that dermal abs		

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		lead to syste	mic toxicity.		
	reaction mixture of ethylbenzene, m- xylene and p-	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC

xylene and p- xylene				
	Further inform skin, Indicativ		possibility of significant uptal	ke through the
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant uptal	ke through the
		TWA	50 ppm 220 mg/m3	GB EH40
		nose for which there	bed through the skin. The as are concerns that dermal ab	
		STEL	100 ppm 441 mg/m3	GB EH40
		nose for which there	bed through the skin. The as are concerns that dermal ab	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Hexamethylene-di- isocyanate, polymer	28182-81-2	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	methyl hippuric acid: 650 Millimo- les per mole Creat- inine (Urine)	After shift	GB EH40 BAT

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

	. ,		· /	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Hexamethylene-di- isocyanate, polymer	Workers	Inhalation	Long-term local ef- fects	0,5 mg/m3
	Workers	Inhalation	Long-term systemic effects	1 mg/m3
n-butyl acetate	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Inhalation	Acute local effects	600 mg/m3
	Workers	Inhalation	Long-term systemic effects	48 mg/m3
	Workers	Inhalation	Long-term local ef- fects	300 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	300 mg/m3
	Consumers	Inhalation	Acute local effects	300 mg/m3

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		Consumers	Inhalation	Long-term systemic effects	12 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	35,7 mg/m
		Consumers	Dermal	Long-term systemic effects	3,4 mg/kg bw/day
		Consumers	Dermal	Acute systemic ef- fects	6 mg/kg bw/day
		Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
		Consumers	Oral	Acute systemic ef- fects	2 mg/kg bw/day
		Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
		Workers	Dermal	Acute systemic ef- fects	11 mg/kg bw/day
2-buto	oxyethyl acetate	Workers	Inhalation	Long-term systemic effects	333 mg/m3
		Consumers	Oral	Long-term systemic effects	86 mg/kg bw/day
		Workers	Dermal	Long-term systemic effects	169 mg/kg bw/day
		Workers	Dermal	Acute systemic ef- fects	120 mg/kg bw/day
		Consumers	Dermal	Long-term systemic effects	102 mg/kg bw/day
		Consumers	Dermal	Acute systemic ef- fects	72 mg/kg bw/day
		Consumers	Oral	Acute systemic ef- fects	36 mg/kg bw/day
Hydro aroma	carbons, C9 atics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
		Workers	Oral	Long-term systemic effects	150 mg/m3
		Consumers	Inhalation	Long-term exposure	32 mg/m3
		Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
		Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
ethylb	on mixture of enzene, m- e and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	65,3 mg/m
		Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
		Workers	Inhalation	Acute local effects	289 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
		Workers	Inhalation	Long-term local ef- fects	221 mg/m3
		Consumers	Inhalation	Long-term systemic	14,8 mg/m

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1		1		effects	
		Consumers	Inhalation	Acute local effects	260 mg/m3
		Consumers	Dermal	Long-term systemic effects	108 mg/kg bw/day
		Consumers	Oral	Long-term systemic effects	16 mg/kg bw/day
		Workers	Dermal	Long-term systemic effects	180 mg/kg bw/day
	Solvent naphtha (pe- troleum), light arom.;	Workers	Inhalation	Long-term systemic effects	150 mg/m3

troleum), light arom.; Low boiling point naphtha -unspecified			effects	loo iiig,iilo
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	11 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Hexamethylene-di-isocyanate,	Soil	53182 mg/kg dry
polymer		weight (d.w.)
	Marine water	0,0127 mg/l
	Fresh water	0,127 mg/l
	Marine sediment	26670 mg/kg dry
		weight (d.w.)
	Fresh water sediment	266670 mg/kg
		dry weight (d.w.)
	Sewage treatment plant	38,3 mg/l
	Intermittent use/release	1,27 mg/l
n-butyl acetate	Soil	0,0903 mg/kg dry
		weight (d.w.)
	Marine water	0,018 mg/l
	Fresh water	0,18 mg/l
	Marine sediment	0,0981 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0,981 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	35,6 mg/l
	Intermittent use/release	0,36 mg/l
2-butoxyethyl acetate	Soil	0,415 mg/kg dry
		weight (d.w.)
	Marine water	0,0304 mg/l
	Fresh water	0,304 mg/l
	Marine sediment	0,203 mg/kg dry
		weight (d.w.)
	Fresh water sediment	2,03 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	90 mg/l

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	Intermittent use/release	0,56 mg/l
3-methoxybutyl acetate	Soil	0,00397 mg/kg
		dry weight (d.w.)
	Marine water	0,00071 mg/l
	Fresh water	0,0071 mg/l
	Marine sediment	0,0041 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0,041 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	1 mg/l
	Intermittent use/release	0,071 mg/l
reaction mixture of ethylbenzene,	Soil	2,31 mg/kg dry
m-xylene and p-xylene		weight (d.w.)
	Marine water	0,327 mg/l
	Fresh water	0,327 mg/l
	Marine sediment	12,46 mg/kg dry
		weight (d.w.)
	Fresh water sediment	12,46 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	6,58 mg/l
	Intermittent use/release	0,327 mg/l

8.2 Exposure controls

Personal protective equipment			
Eye protection	:	Equipment should conform to EN 166 Eye wash bottle with pure water Tightly fitting safety goggles	
Hand protection			
Gloves	:	Viton® (> 0,6 mm; < 240 min); DIN EN374 PE laminate (> 0,1 mm; < 240 min); DIN EN374	
Remarks	:	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time.	
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and con- centration of the dangerous substance at the work place.	
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 14387	
Filter type	:	Organic vapour type (A)	

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	solvent-like
Odour Threshold	:	No data available
Melting point/freezing point	:	-80,0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	126 °C (calculation method (principal components, lowest value))
Flammability	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	8,4 %(V) (calculation method (principal components, highest value))
Lower explosion limit / Lower flammability limit	:	0,8 %(V) (calculation method (principal components, highest value))
Flash point	:	38 °C
Ignition temperature	:	280 °C (calculation method (principal components, highest value))
Decomposition temperature Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire condi- tions.
рН	:	Not applicable
Viscosity Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)
Flow time	:	12 s at 20 °C Cross section: 4 mm Method: DIN 53211
Solubility(ies) Water solubility	:	immiscible, partly soluble
Solubility in other solvents	:	Description: miscible with most organic solvents

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	Partition coefficien octanol/water	nt: n- :	:	log Pow: < 4 (calculation method (principal components, high- est value))
	Vapour pressure	:		< 1.100 hPa (calculation method (principal components, high- est value)) (50 °C)
	Relative density	:	:	0,93 (calculation method (principal components, highest val- ue))
	Density	:	:	0,99 g/cm3
	Relative vapour d	ensity :	:	5,5 (calculation method (principal components, lowest value))
				(Air = 1.0)
9.2	2 Other information	1		
	Explosives	:		Not applicable
	Oxidizing properti	es :		Sustains combustion

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.		
Vapours may form explosive mixture with air.		
10.4 Conditions to avoid		
Conditions to avoid : Heat, flames and sparks.		
10.5 Incompatible materials		
Materials to avoid : Incompatible with strong acids and bases.		
10.6 Hazardous decomposition products Adequate ventilation is required. Heating can release vapours which can be ignited.		
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).		

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

	,
Acute toxicity	
Harmful if inhaled.	
Product:	
Acute oral toxicity :	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity :	Acute toxicity estimate: 19,11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity :	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Components:	
Hexamethylene-di-isocyanate,	polymer:
Acute inhalation toxicity :	Assessment: The component/mixture is moderately toxic after short term inhalation.
n-butyl acetate:	
•	LD50 Oral (Rat): >= 10.760 mg/kg
Acute dermal toxicity :	LD50 (Rabbit): >= 5.000 mg/kg
2-butoxyethyl acetate:	
	Assessment: The component/mixture is moderately toxic after single ingestion.
	LD50 Oral (Rat): >= 2.400 mg/kg
Acute inhalation toxicity :	LC50 (Rat): >= 50 mg/l Exposure time: 2 h Test atmosphere: vapour
Acute dermal toxicity :	Assessment: The component/mixture is moderately toxic after single contact with skin.
	LD50 (Rabbit): >= 1.500 mg/kg
Hudrocarbons CO aromatica	
Hydrocarbons, C9 aromatics: Acute dermal toxicity :	LD50 (Rabbit): > 3.160 mg/kg

reaction mixture of ethylbenzene, m-xylene and p-xylene:

according to Regulation (EC) No. 1907/2006



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Acute	e oral toxicity	: LD50 Oral (Rat): >= 8.700 mg/kg
Acute	inhalation toxicity	: Test atmosphe Assessment: T short term inha	he component/mixture is moderately toxic aft
Acute	e dermal toxicity	: Assessment: T single contact v	he component/mixture is moderately toxic aft vith skin.
	ent naphtha (petrol		boiling point naphtha -unspecified:): > 2.000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > 5 Test atmosphe	•
Acute	e dermal toxicity	: LD50 (Rabbit):	> 2.000 mg/kg
	corrosion/irritation ated exposure may	n cause skin dryness or cr	acking.
<u>Prod</u> Rema		: May cause skir	n irritation and/or dermatitis.
Com	ponents:		
react	ion mixture of ethy	lbenzene, m-xylene an	d p-xylene:
Resu	lt	: irritating	
	ous eye damage/eyo lassified based on a	e irritation vailable information.	
Prod	uct:		
Rema	arks	: Vapours may c and the skin.	ause irritation to the eyes, respiratory system
<u>Com</u>	ponents:		
roact	ion mixture of ethy	lbenzene, m-xylene an	d p-xylene:
react	•.	: Eye irritation	
Resu	lt	. Lyc initation	
Resu	ائ iratory or skin sen		
Resu Resp			
Resu Resp Skin	iratory or skin sen	sitisation	
Resu Resp Skin May o Resp	iratory or skin sen sensitisation cause an allergic ski iratory sensitisatio	sitisation n reaction.	
Resu Resp Skin May o Resp	iratory or skin sen sensitisation cause an allergic ski iratory sensitisatio lassified based on a	sitisation n reaction.	

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Components:

nexametriyiene-ui-isocyai	nate, polymer:
Result	: Probability or evidence of skin sensitisation in humans
Germ cell mutagenicity	
Not classified based on ava	ilable information.
Carcinogenicity Not classified based on ava	ilable information.
Components:	
Solvent naphtha (petroleu	m), light arom.; Low boiling point naphtha -unspecified:
• •	: Classified based on benzene content < 0.1% (Regulation (EC 1272/2008, Annex VI, Part 3, Note P)
Reproductive toxicity Not classified based on ava	ilable information.
STOT - single exposure	
May cause respiratory irritat May cause drowsiness or di	
Components:	
Hexamethylene-di-isocyar	nate, polymer:
Assessment	: May cause respiratory irritation.
n-butyl acetate:	
Assessment	: May cause drowsiness or dizziness.
Hydrocarbons, C9 aromat	ics:
Assessment	: May cause drowsiness or dizziness.
Assessment	: May cause respiratory irritation.
reaction mixture of ethylb	enzene, m-xylene and p-xylene:
Assessment	: May cause respiratory irritation.
	ım), light arom.; Low boiling point naphtha -unspecified:
Solvent naphtha (petroleu	
Solvent naphtha (petroleu Assessment	: May cause drowsiness or dizziness.

Not classified based on available information.

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Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment

: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9 aromatics:

May be fatal if swallowed and enters airways.

reaction mixture of ethylbenzene, m-xylene and p-xylene:

:

May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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

Further information

Product:

Remarks

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

n-butyl acetate:

Toxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l plants

according to Regulation (EC) No. 1907/2006



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			EC50 (Desmodesmus subspicatus (gro mg/l Exposure time: 72 h	een algae)): >= 647,7
Тох	icity to microorganisms	:	IC50 (Tetrahymena pyriformis): 356 m Exposure time: 40 h	g/I
2-b	utoxyethyl acetate:			
	icity to fish	:	LC50 (Fish): >= 31 mg/l Exposure time: 96 h	
	icity to daphnia and oth atic invertebrates	ier :	LC50 (Daphnia (water flea)): >= 142,5 Exposure time: 48 h	mg/l
Тох	icity to microorganisms	:	EC50 (Bacteria): >= 2.800 mg/l	
Нус	Irocarbons, C9 aroma	tics:		
Тох	icity to fish	:	LC50 (Fish): >= 9,2 mg/l Exposure time: 96 h	
	icity to daphnia and oth atic invertebrates	ier :	EC50 (Daphnia (water flea)): >= 3,2 m Exposure time: 48 h	g/l
Ecc	otoxicology Assessme	ent		
	onic aquatic toxicity	:	Toxic to aquatic life with long lasting ef	fects.
rea	ction mixture of ethyll	benzei	e, m-xylene and p-xylene:	
Тох	icity to fish	:	LC50 (Fish): >= 1 - 10 mg/l	
	icity to daphnia and oth atic invertebrates	ier :	LC50 (Daphnia (water flea)): >= 1 - 10	mg/l
Тох	icity to microorganisms	:	EC50 (Bacteria): >= 1 - 100 mg/l	
	vent naphtha (petrole icity to fish		ght arom.; Low boiling point naphtha LC50 (Fish): > 1 - 10 mg/l	-unspecified:
	icity to daphnia and oth atic invertebrates	ier :	LC50 (Daphnia (water flea)): > 1 - 10 n	ng/l
Тох	icity to microorganisms	:	EC50 (Bacteria): > 1 - 10 mg/l	
	otoxicology Assessme	ent :	Toxic to aquatic life with long lasting ef	fects.

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12.2 Persistence and degradability

	-	-	
	Components:		
	n-butyl acetate:		
	Biodegradability	:	Result: Biodegradable Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 301D
	Stability in water	:	Degradation half life: 78 d pH: 8 Hydrolyses slowly.
	Photodegradation	:	Decomposes rapidly in contact with light.
	2-butoxyethyl acetate:		
	Biodegradability	:	Result: Biodegradable
	reaction mixture of ethylber	nzei	ne, m-xylene and p-xylene:
	Biodegradability	:	Readily biodegradable.
	Photodegradation	:	Decomposes rapidly in contact with light.
12.:	3 Bioaccumulative potential		
	Components:		
	n-butyl acetate:		
	Bioaccumulation	:	Bioconcentration factor (BCF): 15 Bioaccumulation is unlikely.
	Partition coefficient: n- octanol/water	:	log Pow: 1,81
	2-butoxyethyl acetate:		
	Partition coefficient: n- octanol/water	:	log Pow: 1,51
	Hydrocarbons, C9 aromatics	s:	
	Partition coefficient: n- octanol/water	:	log Pow: < 4
	reaction mixture of ethylber	ızeı	ne, m-xylene and p-xylene:
	Bioaccumulation	:	Bioconcentration factor (BCF): 25,9
			Bioaccumulation is unlikely.
	Partition coefficient: n- octanol/water	:	Bioaccumulation is unlikely. log Pow: 2,77 - 3,15

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12.4 Mobility in soil

Components:	
Hydrocarbons, C9 aromatic	S:
Mobility	: Medium: Air Content: 92,9 %
	: Medium: Water Content: 3,5 %
	: Medium: Soil Content: 1,9 %
	: Medium: Sediment Content: 1,8 %
Distribution among environ- mental compartments	: Koc: 1,71 - 14,70 Mobile in soils
	The product is insoluble and floats on water.
reaction mixture of ethylber	nzene, m-xylene and p-xylene:
Distribution among environ- mental compartments	: Koc: 537, log Koc: 2,73 Moderately mobile in soils The product evaporates from soil.
Stability in soil	: Dissipation time: 23 d Percentage dissipation: 50 % (DT50)

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
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12.6 Endocrine disrupting properties

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

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12.7 Other adverse effects

Product:

Additional ecological infor-	:	An environmental hazard cannot be excluded in the event of
mation		unprofessional handling or disposal.
		Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 The product should not be allowed to enter drains, water courses or the soil. 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.
Waste Code	 08 00 00, WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01 00, wastes from MFSU and removal of paint and var- nish 08 01 11*, waste paint and varnish containing organic sol- vents or other hazardous substances 15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 01 00, packaging (including separately collected municipal packaging waste) 15 01 10*, packaging containing residues of or contaminated by hazardous substances HP3, Flammable HP6, Acute Toxicity HP13, Sensitising

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1263
ADR	:	UN 1263
RID	:	UN 1263
IMDG	:	UN 1263

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ΙΑΤΑ		: UN 1263	
14.2 UN p	roper shipping nam	e	
ADN		: PAINT	
ADR		: PAINT	
RID		: PAINT	
IMDG	ì	: PAINT	
ΙΑΤΑ		: Paint	
14.3 Trans	sport hazard class(es)	
ADN		: 3	
ADR		: 3	
RID		: 3	
IMDG	ì	: 3	
ΙΑΤΑ		: 3	
14.4 Pack	ing group		
Class	ng group ification Code rd Identification Num s	: III : F1 ber : 30 : 3	
Class Haza Label	ng group ification Code rd Identification Num s el restriction code	: III : F1 ber : 30 : 3 : (D/E)	
RID Packi Class	ng group ification Code rd Identification Num	: III : F1	
IMDG	ng group s	: III : 3 : F-E, <u>S-E</u>	
IATA Packi aircra Packi	(Cargo) ng instruction (cargo ft) ng instruction (LQ) ng group		iquids
	(Passenger) ng instruction (passe		

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ger aircraft) Packing instruction (LQ) Packing group Labels		:	Y344 III Flammable Liquids		
14.5 Environmental hazards					
	ADN Enviro	nmentally hazardou	s :	no	
	ADR Enviro	nmentally hazardou	s :	no	
	RID Enviro	nmentally hazardou	s :	no	
	IMDG				

IMDG Marine pollutant : no

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the Euro- P5c pean Parliament and of the Council on the	FLA	AMMABLE LIQUIDS

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control of major-accident hazards involving dangerous substances.

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Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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

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 H302 H304 H312 H315 H317 H319 H332 H335 H336 H373 H411 EUH066		Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.		
Full text of other abbreviations				
Acute Tox. Aquatic Chronic Asp. Tox. Eye Irrit. Flam. Liq.		Acute toxicity Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation Flammable liquids		

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Skin Irrit. Skin Sens. STOT RE STOT SE 2000/39/EC		: Specific targe : Specific targe : Europe. Com	Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values		
2019/1831/EU		: Europe. Com	Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values		
GB EH40 GB EH40 BAT 2000/39/EC / TWA 2000/39/EC / STEL 2019/1831/EU / TWA 2019/1831/EU / STEL GB EH40 / TWA GB EH40 / STEL		UK. EH40 W UK. Biologica Limit Value - Short term es Limit Value - Short term es Long-term es	UK. EH40 WEL - Workplace Exposure Limits UK. Biological monitoring guidance values Limit Value - eight hours Short term exposure limit Limit Value - eight hours Short term exposure limit Long-term exposure limit (8-hour TWA reference period) Short-term exposure limit (15-minute reference period)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

Flam. Liq. 3

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Based on product data or assessment

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Acute Tox. 4		H332	Calculation method
Skin Sens. 1		H317	Calculation method
STOT SE 3		H336	Calculation method
STOT SE 3		H335	Calculation method
Aquatic Chronic 3		H412	Calculation method

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