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

1.1	Product identifier Trade name	:	MOBIHEL 2K hardener 1500		
	Product code	:	416727		
1 2	Polovant identified uses of th	10 E	ubstance or mixture and uses advised against		
1.2	Use of the Sub- stance/Mixture	:	-		
	Recommended restrictions on use	:	Reserved for industrial and professional use.		
1.3	.3 Details of the supplier of the safety data sheet				
	Company	:	Helios TBLUS 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@helios.si		

1.4 Emergency telephone number

Emergency telephone number: 911

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 Skin sensitisation, Category 1 Specific target organ toxicity - single ex- posure, Category 3, Central nervous	H226: Flammable liquid and vapour. H317: May cause an allergic skin reaction. H336: May cause drowsiness or dizziness.
system Specific target organ toxicity - single ex- posure, Category 3, Respiratory system	H335: May cause respiratory irritation.



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2.2 Label elements

Labelling (REGULATION (E Hazard pictograms	C) :	No 1272/200	8)
Signal word	:	Warning	•
Hazard statements	:	H226 H317 H335 H336	Flammable liquid and vapour. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.
Supplemental Hazard Statements	:	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	Prevention	:
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P261	Avoid breathing mist or vapours.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		Response:	
		P303 + P36	ately all contaminated clothing. Rinse skin with water.
		P304 + P34	
		P370 + P37	

Hazardous components which must be listed on the label: Hexamethylene-di-isocyanate, polymer n-butyl acetate isobutyl acetate reaction mixture of ethylbenzene, m-xylene and p-xylene

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.



SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hexamethylene diisocyanate, oligo- mers	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory sys- tem)	>= 30 - < 50
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30
isobutyl acetate	110-19-0 203-745-1 607-026-00-7 01-2119488971-22	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
reaction mixture of ethylbenzene, m- xylene and p-xylene	Not Assigned 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 sys- tem) STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 10
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
solvent naphtha (petroleum), light aromatic	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 sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.



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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 ar	nd e	ffects, both acute and delayed			
Risks	:	May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.			
		May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.			
4.3 Indication of any immediate	med	lical attention and special treatment needed			
Treatment	:	Treat symptomatically.			

SECTION 5: Firefighting measures

5.1	Exting	guishing	media
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Suitable extinguishing media	:	Alcohol-resistant foam
		Carbon dioxide (CO2)



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				Dry chemical		
	Jnsuitable extinguisl nedia	ning :	:	High volume water je	et	
5.2 Sp	pecial hazards aris	ing from tl	he	substance or mixtu	re	
	Specific hazards dur ighting	ing fire-	:	Do not allow run-off f courses.	rom fire fighting to enter drains or water	
	Hazardous combustion prod- : ucts		:	No hazardous combustion products are known		
5.3 Ao	dvice for firefighte	rs				
	Special protective ec or firefighters	uipment :	:	In the event of fire, w	ear self-contained breathing apparatus.	
F	Further information		:	must not be discharg Fire residues and con be disposed of in acc For safety reasons in rately in closed conta	ntaminated fire extinguishing water must cordance with local regulations. a case of fire, cans should be stored sepa-	

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. 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 containment 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).



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6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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,	incl	uding 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.
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 sub- stance/mixture.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m3	2019/1831/E U
		TWA	50 ppm 241 mg/m3	2019/1831/E U
isobutyl acetate	110-19-0	TWA	50 ppm 241 mg/m3	2019/1831/E U
		STEL	150 ppm 723 mg/m3	2019/1831/E U
reaction mixture of ethylbenzene, m- xylene and p- xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
		STEL	100 ppm 442 mg/m3	2000/39/EC
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
		TWA	50 ppm 275 mg/m3	2000/39/EC

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
	Consumers	Inhalation	Long-term systemic effects	12 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	3.4 mg/kg bw/day



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	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
isobutyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Inhalation	Long-term local ef- fects	300 mg/m3
	Workers	Inhalation	Acute local effects	600 mg/m3
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	35.7 mg/m3
	Consumers	Inhalation	Acute local effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	10 mg/kg bw/day
	Consumers	Oral	Acute systemic ef- fects	5 mg/kg bw/day
	Workers	Dermal	Acute systemic ef- fects	10 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Dermal	Acute systemic ef- fects	5 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	5 mg/kg bw/day
reaction mixture of ethylbenzene, m- xylene and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	65.3 mg/m3
	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 effects	14.8 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Dermal	Long-term systemic effects	108 mg/kg bw/day



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	Consumers	Oral	Long-term systemic effects	16 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	180 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Inhalation	Acute local effects	550 mg/m3
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	33 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
ethyl 3- ethoxypropionate	Workers	Inhalation	Long-term systemic effects	610 mg/m3
	Workers	Inhalation	Long-term local ef- fects	610 mg/m3
	Consumers	Inhalation	Long-term systemic effects	72.6 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	72.6 mg/m3
	Workers	Dermal	Long-term local ef- fects	102 mg/cm2
	Workers	Dermal	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	24.2 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.2 mg/kg bw/day
Solvent naphtha (pe- troleum), light arom.; Low boiling point naphtha -unspecified	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	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	505 mg/kg dry
polymer		weight (d.w.)
	Marine water	0.01 mg/l



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	Fresh water	0.1 mg/l
	Marine sediment	253 mg/kg dry
		weight (d.w.)
	Fresh water sediment	2530 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	1 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
isobutyl acetate	Soil	0.0755 mg/kg dry
loobary addiato		weight (d.w.)
	Marine water	0.017 mg/l
	Fresh water	0.17 mg/l
	Marine sediment	0.0877 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0.877 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	200 mg/l
	Intermittent use/release	0.34 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
2-methoxy-1-methylethyl acetate	Soil	0.29 mg/kg dry
		weight (d.w.)
	Marine water	0.0635 mg/l
	Fresh water	0.635 mg/l
	Marine sediment	0.329 mg/kg dry
	Marine Sediment	weight (d.w.)
	Fresh water sediment	3.29 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.00635 mg/l
ethyl 3-ethoxypropionate	Soil	0.00835 mg/i 0.048 mg/kg dry
	Marina watar	weight (d.w.)
	Marine water	0.00609 mg/l



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Fresh water	0.0609 mg/l
Marine sediment	0.0419 mg/kg dry weight (d.w.)
Fresh water sediment	0.419 mg/kg dry weight (d.w.)
Sewage treatment plant	50 mg/l
Intermittent use/release	0.609 mg/l

8.2 Exposure controls

Personal protective equipment	t
Eye/face 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); ISO EN374 │ │ PE laminate (> 0,1 mm; < 240 min); ISO EN374 │
Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves. 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 concen- tration of the dangerous substance at the work place.
Respiratory protection :	Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type :	Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid colourless solvent-like No data available
рН	:	Not applicable
Melting point/freezing point	:	-98.8 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	117 °C (calculation method (principal components, lowest value)) value))
Flash point	:	34 °C

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Flam	nmability (solid, gas)	:	Static-accu	mulating flammable liquid., Combustible Solids
	er explosion limit / Upp mability limit	er :	()	n method (principal components, highest value))
	er explosion limit / Low mability limit	er :		n method (principal components, highest value))
Vap	our pressure	:	< 1,100 hP est value))	a (calculation method (principal components, high-
			(50 °C)	
Rela	ative vapour density	:	4.6 (calcula	ation method (principal components, highest value))
			(Air = 1.0)	
Rela	tive density	:	No data av	ailable
Den	sity	:	0.984 g/cm	3
V	ibility(ies) Vater solubility Solubility in other solver	: nts :		partly soluble are miscible with most organic solvents
	ition coefficient: n- nol/water	:	log Pow: 2 nents, high	77 - 3.15 (calculation method (principal compo- est value))
Ignit	ion temperature	:	315 °C (ca value))	culation method (principal components, highest
Dec	omposition temperature	ə :		position if stored and applied as directed. decomposition products formed under fire condi-
	osity /iscosity, kinematic	:	> 20.5 mm	2/s (40 °C)
Flow	<i>i</i> time	:	12 s at 20 Cross sect Method: DI	ion: 4 mm
Expl	osive properties	:	Not applica	ble
Oxic	lizing properties	:	Sustains co	ombustion



9.2 Other information

No data available VOC

(Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control))
 60.96 %
 Volatile CMR compounds [%]: 0.02 %

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 d	ecomposition if stored and applied as directed.
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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

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information. Not classified due to lack of data.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 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



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Components:

Hexamethylene-di-isocyanate, polymer:			
Acute inhalation toxicity	:	Assessment: The component/mixture is moderately toxic after short term inhalation.	
n-butyl acetate:			
Acute oral toxicity	:	LD50 Oral (Rat): >= 10,760 mg/kg	
Acute dermal toxicity	:	LD50 (Rabbit): >= 5,000 mg/kg	
reaction mixture of ethylbe	nze	ne, m-xylene and p-xylene:	
Acute oral toxicity	:	LD50 Oral (Rat): >= 8,700 mg/kg	
Acute inhalation toxicity	:	LC50 (Rat): 27.14 mg/l Test atmosphere: vapour	
Acute dermal toxicity	:	Assessment: The component/mixture is moderately toxic after single contact withskin.	
2-methoxy-1-methylethyl ad	ceta	te:	
Acute oral toxicity	:		
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Test atmosphere: vapour	
		LC0 (Rat): 2000 ppm Exposure time: 3 h	
Acute dermal toxicity	:	LD50 (Rabbit): > > 2,000 mg/kg	
Solvent naphtha (petroleun	1). li	ight arom.; Low boiling point naphtha -unspecified:	
Acute oral toxicity	:		
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Test atmosphere: vapour	
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg	
Skin corrosion/irritation Repeated exposure may cause skin dryness or cracking. Repeated exposure may cause skin dryness or cracking.			
Product:			
Remarks	:	May cause skin irritation and/or dermatitis.	



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Components:

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

Serious eye damage/eye irritation

Not classified based on available information. Not classified due to lack of data.

Product:

Remarks

: Vapours may cause irritation to the eyes, respiratory system and the skin.

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Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene: Result : Eve irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

 Hexamethylene-di-isocyanate, polymer:

 Result
 : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information. Not classified due to lack of data.

Components:

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

Germ cell mutagenicity- As-	:	Classified based on benzene content < 0.1% (Regulation (EC)
sessment		1272/2008, Annex VI, Part 3, Note P)



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Carcinogenicity

Not classified based on available information. Not classified due to lack of data.

Components:

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

Carcinogenicity - Assess-	:	Classified based on benzene content < 0.1% (Regulation (EC)
ment		1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified based on available information. Not classified due to lack of data.

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness. May cause respiratory irritation. May cause drowsiness or dizziness.

Components:

Hexamethylene-di-isocyanat Assessment	te,∣ ∶	polymer: May cause respiratory irritation.			
n-butyl acetate: Assessment		May cause drowsiness or dizziness.			
isobutyl acetate:	•				
Assessment	:	May cause drowsiness or dizziness.			
reaction mixture of ethylben	zer	ne, m-xylene and p-xylene:			
Assessment	:	May cause respiratory irritation.			
2-methoxy-1-methylethyl ac	eta	te:			
Assessment	:	May cause drowsiness or dizziness.			
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:					
Assessment	:	May cause drowsiness or dizziness.			
Assessment	:	May cause respiratory irritation.			

STOT - repeated exposure

Not classified based on available information. Not classified due to lack of data.



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Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene: Assessment : May cause damage to organs through proto

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

Aspiration toxicity

Not classified based on available information. Not classified due to lack of data.

Components:

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.

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 plants		NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l		
		EC50 (Desmodesmus subspicatus (green algae)): >= 647.7		
		mg/l Exposure time: 72 h		
Toxicity to microorganisms	:	IC50 (Tetrahymena pyriformis): 356 mg/l		
		Exposure time: 40 h		
reaction mixture of ethylben	701	ne m-xylene and n-xylene.		
	201			
Toxicity to fish	:	LC50 (Fish): >= 1 - 10 mg/l		
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia (water flea)): >= 1 - 10 mg/l		



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_ .				4 400 #
IOXI	city to microorganisms	:	EC50 (Bacteria): >	= 1 - 100 mg/l
2-me	ethoxy-1-methylethyl a	aceta	te:	
Toxi	city to fish	:	LC50 (Oncorhynch Exposure time: 96	us mykiss (rainbow trout)): 130 mg/l h
			NOEC : 100 mg/l Exposure time: 96	h
	city to daphnia and othe atic invertebrates	er :	LC50 : 408 mg/l Exposure time: 48	h
Toxi icity)	city to fish (Chronic tox-	· :	EC10: 47.5 mg/l	
Solv	ent naphtha (petroleu	ım), li	ight arom.; Low boi	ling point naphtha -unspecified:
Toxi	city to fish	:	LC50 (Fish): > 1 - 1	10 mg/l
	city to daphnia and othe atic invertebrates	ər :	LC50 (Daphnia (wa	ater flea)): > 1 - 10 mg/l
	city to microorganisms	:	EC50 (Bacteria): >	1 - 10 mg/l
Ecot	toxicology Assessme	nt		
Chro	onic aquatic toxicity	:	Toxic to aquatic life	e with long lasting effects.
12.2 Pers	sistence and degradat	oility		
<u>Com</u>	ponents:			
n-bu	ityl acetate:			
Biod	egradability	:	Result: Biodegrada	
			Biodegradation: 83 Exposure time: 28	
			Method: OECD Te	st Guideline 301D
Stab	ility in water	:	Degradation half lif	e: 78 d
			pH: 8 Hydrolyses slowly.	
Phot	odegradation	:	Decomposes rapid	ly in contact with light.
roan	tion mixture of ethylb	enze	ne m-xvlene and n	-xvlene:
	egradability	:	Readily biodegrada	-
Phot	odegradation	:	Decomposes rapid	ly in contact with light.
-				
	ethoxy-1-methylethyl a egradability	aceta	te: Readily biodegrada	ahla
DIUU	egradability	•		סועב.



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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	
	isobutyl acetate: Partition coefficient: n- octanol/water	:	log Pow: 1.72	
	reaction mixture of ethylber	ıze	ne, m-xylene and p-xylene:	
	Bioaccumulation	:		
	Partition coefficient: n- octanol/water	:	log Pow: 2.77 - 3.15	
	2-methoxy-1-methylethyl ac	eta	te:	
	Partition coefficient: n- octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8	
12.4	4 Mobility in soil			
	Components:			
	reaction mixture of ethylbenzene, 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 as	sse	ssment	
	Product:			
	Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
12.6	Other adverse effects			
	Product:			
	Endocrine disrupting poten- tial	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation	



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Additi matio	ional ecological infor n	levels of 0.1%	•
SECTION	N 13: Disposal cor	nsiderations	
13.1 Wast	e treatment method	ls	
Produ	uct	Do not contar cal or used co	e of waste into sewer. ninate ponds, waterways or ditches with chemi- ontainer. nsed waste management company.
Conta	aminated packaging	Do not re-use	ning contents. a unused product. a empty containers. for use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number			
ADN	:	UN 1263	
ADR	:	UN 1263	
RID	:	UN 1263	
IMDG	:	UN 1263	
ΙΑΤΑ	:	UN 1263	
14.2 UN proper shipping name			
ADN	:	PAINT	
ADR	:	PAINT	
RID	:	PAINT	
IMDG	:	PAINT	
ΙΑΤΑ	:	Paint	
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADN	:	3	
ADR	:	3	
RID	:	3	
IMDG	:	3	
ΙΑΤΑ	:	3	



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14.4 Packing group

ADN Packing group Classification Code	:	III F1
Hazard Identification Number Labels	:	30 3
ADR Packing group	:	
Classification Code Hazard Identification Number Labels Tunnel restriction code	:	F1 30 3 (D/E)
RID	•	
Packing group Classification Code Hazard Identification Number Labels	:	III F1 30 3
IMDG Packing group Labels EmS Code	:	III 3 F-E, <u>S-E</u>
IATA (Cargo) Packing instruction (cargo aircraft)	:	366
Packing instruction (LQ) Packing group Labels	:	Y344 III Flammable Liquids
IATA (Passenger) Packing instruction (passen- ger aircraft)	:	355
Packing instruction (LQ) Packing group Labels	::	Y344 III Flammable Liquids
14.5 Environmental hazards		
ADN Environmentally hazardous	:	no
ADR Environmentally hazardous	:	no
RID Environmentally hazardous	:	no

IMDG Marine pollutant

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

: no



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 Not applicable for product as supplied.

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SE

ECTION 16: Other information	on				
Full text of H-Statements					
H225	:	Highly flammable liquid and vapour.			
H226	:	Flammable liquid and vapour.			
H304	:	May be fatal if swallowed and enters airways.			
H312	:	Harmful in contact with skin.			
H315	:	Causes skin irritation.			
H317	:	May cause an allergic skin reaction.			
H319	:	Causes serious eye irritation.			
H332	:	Harmful if inhaled.			
H335	:	May cause respiratory irritation.			
H336	:	May cause drowsiness or dizziness.			
H373	:	May cause damage to organs through prolonged or repeated			
		exposure.			
H411	:	Toxic to aquatic life with long lasting effects.			
Full text of other abbreviations					
Acute Tox.	:	Acute toxicity			
Aquatic Chronic	:	Long-term (chronic) aquatic hazard			
Asp. Tox.	:	Aspiration hazard			
Eye Irrit.	:	Eye irritation			
Flam. Liq.	:	Flammable liquids			
Skin Irrit.	:	Skin irritation			
Skin Sens.	:	Skin sensitisation			
STOT RE	:	Specific target organ toxicity - repeated exposure			
STOT SE	:	Specific target organ toxicity - single exposure			
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first			
		list of indicative occupational exposure limit values			
2019/1831/EU	:	Europe. Commission Directive 2019/1831/EU establishing a			
2000/20/EC / TM/A		fifth list of indicative occupational exposure limit values			
2000/39/EC / TWA	÷	Limit Value - eight hours			
2000/39/EC / STEL	÷	Short term exposure limit			
2019/1831/EU / TWA 2019/1831/EU / STEL	÷	Limit Value - eight hours			
2019/1031/EU/ STEL	·	Short term exposure limit			



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

Further information						
Classification of the	mixture:	Classification procedure:				
Flam. Liq. 3	H226	Based on product data or assessment				
Skin Sens. 1	H317	Calculation method				
STOT SE 3	H336	Calculation method				
STOT SE 3	H335	Calculation method				

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