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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 1100			
	Product code	:	41672281			
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

Ambulance (972) 101

Israel Poison Information Center +972 4 854 19 00

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)Flammable liquids, Category 3H226: Flammable liquid and vapour.Acute toxicity, Category 4H332: Harmful if inhaled.Skin sensitisation, Category 1H317: May cause an allergic skin reaction.Specific target organ toxicity - single exposure, Category 3, Central nervous systemH336: May cause drowsiness or dizziness.



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	ecific target organ toxici sure, Category 3, Respi		H335: May cause respiratory irritation.
	Long-term (chronic) aquatic hazard, Cat- egory 3		H412: Harmful to aquatic life with long lasting effects.
2.2 Lab	el elements		
	belling (REGULATION zard pictograms	(EC) No 1272/2	(800)
Sig	inal word	: Warning	
Ha	zard statements	H317 M H332 F H335 M H336 M	Flammable liquid and vapour. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
	pplemental Hazard atements	: EUH066 cracking.	Repeated exposure may cause skin dryness or
Pre	ecautionary statements	· Preventi	on:
		flames a P261 / P273 / P280 V	Keep away from heat, hot surfaces, sparks, open and other ignition sources. No smoking. Avoid breathing mist or vapours. Avoid release to the environment. Vear protective gloves/ protective clothing/ eye protec- e protection/ hearing protection.
		ately all o P370 + F	2361 + P353 IF ON SKIN (or hair): Take off immedi- contaminated clothing. Rinse skin with water.
He n-b 2-b	zardous components w xamethylene-di-isocyar outyl acetate outoxyethyl acetate drocarbons, C9 aromati	ate, polymer	ed on the label:

Additional Labelling

EUH204

Contains isocyanates. May produce an allergic reaction.



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## 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.	Classification	Concentration (% w/w)
Hexamethylene diisocyanate, oligo- mers	Registration number 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
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312	>= 10 - < 20
Hydrocarbons, C9 aromatics	- 918-668-5 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	>= 2.5 - < 10
reaction mixture of ethylbenzene, m- xylene and p-xylene	- 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
solvent naphtha (petroleum), light aromatic	64742-95-6	Flam. Liq. 3; H226 STOT SE 3; H336	>= 1 - < 2.5



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			265-199-0 649-356-00-4 01-2119455851-3	(Central nervous system) 5 STOT SE 3; H335 (Respiratory sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411

## **SECTION 4: First aid measures**

4.1 Description of first aid measu	ures	5
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 an	nd e	ffects, both acute and delayed
Risks	:	May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.
4.3 Indication of any immediate r	mec	lical attention and special treatment needed
Treatment	:	Treat symptomatically.



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## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media : Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical High volume water jet Unsuitable extinguishing media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-: Do not allow run-off from fire fighting to enter drains or water fighting courses. Hazardous combustion prod- : No hazardous combustion products are known ucts 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters 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 separately 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 equipme Remove all sources of ignition. Evacuate personnel to safe area Beware of vapours accumulating tions. Vapours can accumulate i	s. I to form explosive concentra-
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#### 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



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/ national regulations (see section 13).

#### 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	:	<ul> <li>Avoid formation of aerosol.</li> <li>Do not breathe vapours/dust.</li> <li>Avoid exposure - obtain special instructions before use.</li> <li>Avoid contact with skin and eyes.</li> <li>For personal protection see section 8.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Take precautionary measures against static discharges.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Open drum carefully as content may be under pressure.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> <li>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.</li> </ul>
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, ir	ncl	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
Hexamethylene-di-	28182-81-2	TLV-TWA	0.005 ppm	IL OEL
isocyanate, poly-	20102-01-2		(Isocyanates)	
mer			(ISOCYAHAtes)	
		TLV-STEL	0.02 ppm	IL OEL
			(Isocyanates)	
n hutul agatata	123-86-4	STEL	150 ppm	2019/1831/E
n-butyl acetate	123-00-4	SIEL	723 mg/m3	U
	Further inform	actions Indiantiss	723 119/113	0
	Further Inform	nation: Indicative	50	
		TWA	50 ppm	2019/1831/E
			241 mg/m3	U
	Further inform	nation: Indicative		
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
2-butoxyethyl ace-	112-07-2	TWA	20 ppm	2000/39/EC
tate			133 mg/m3	
	skin, Indicativ	STEL	50 ppm 333 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant up	ake through the
		TWA	20 ppm	ACGIH
reaction mixture of ethylbenzene, m- xylene and p- xylene	1330-20-7	TLV-TWA	100 ppm	IL OEL
-		TLV-C	150 mg/m3	IL OEL
	ſ	TWA	50 ppm	2000/39/EC
			221 mg/m3	
	Further inform skin, Indicativ		possibility of significant up	ake through the
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant up	ake through the
		TWA	20 ppm	ACGIH
				· · · · · · · · · · · · · · · · · · ·

## **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
reaction mixture of	1330-20-7	methyl hippuric		IL BEI
ethylbenzene, m-xylene		acid: 1.5 g/g creat-		
and p-xylene		inine		
		(Urine)		
		Methylhippuric	End of shift (As	ACGIH BEI
		acids: 1.5 g/g cre-	soon as possible	



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atinine	after exposure	
(Urine)	ceases)	

## 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
	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-butoxyethyl 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
Hydrocarbons, C9	Workers	Inhalation	Long-term systemic	150 mg/m3



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aromatics			effects	
	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
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
	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.; 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, polymer	Soil	505 mg/kg dry weight (d.w.)
	Marine water	0.01 mg/l
	Fresh water	0.1 mg/l
	Marine sediment	253 mg/kg dry weight (d.w.)
	Fresh water sediment	2530 mg/kg dry



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		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
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
	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/face protection	:	Equipment should conform to EN 166
		Eye wash bottle with pure water
		Tightly fitting safety goggles

Hand protection



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Glo	oves	:	Viton® (> 0,6 mm;   PE laminate (> 0,1	< 240 min); DIN EN374   mm; < 240 min); DIN EN374
Re	marks	:	with the producers of Please observe the i breakthrough time w gloves. Also take into	pecific workplace should be discussed f the protective gloves. nstructions regarding permeability and hich are provided by the supplier of the o consideration the specific local condi- e product is used, such as the danger of he contact time.
Skin a	nd body protection	:		tion according to the amount and concen- ous substance at the work place.
Respir	ratory protection	:	tilation is provided or	ection unless adequate local exhaust ven- exposure assessment demonstrates that recommended exposure guidelines.
Filt	er type	:	Organic vapour type	(A)

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	solvent-like
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	
Boiling point/boiling range	:	(calculation method (principal components, lowest value)) 126 °C (calculation method (principal components, lowest value))
Flash point	:	38 °C
Flammability (solid, gas)	:	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))



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Vapour pressure		:	< 1,100 hPa est value)) (50 °C)	(calculation method (principal components, high-
Re	lative vapour density	:	5.5 (calculat	on method (principal components, highest value))
			(Air = 1.0)	
Re	lative density	:	0.93 (calcula ue))	tion method (principal components, highest val-
De	ensity	:	0.99 g/cm3	
So	lubility(ies) Water solubility	:	immiscible, p	partly soluble
Solubility in other solvents : De		Description:	Description: miscible with most organic solvents	
	rtition coefficient: n- tanol/water	:	<ul> <li>log Pow: &lt; 4 (calculation method (principal components, hig est value))</li> </ul>	
Au	Auto-ignition temperature		280 °C (calc value))	ulation method (principal components, highest
De	Decomposition temperature			sition if stored and applied as directed. lecomposition products formed under fire condi-
Vis	scosity		> 20 5 mm2	(40 °C)
	Viscosity, kinematic	•	> 20.5 mm2/	
Flo	ow time	:	: 12 s at 20 °C Cross section: 4 mm Method: DIN 53211	
Ex	plosive properties	:	: Not applicable	
Ox	idizing properties	:	Sustains cor	nbustion
9.2 Oth	er information			

No data available

# **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.



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10.3 Poss	sibility of hazardou	s reactions		
Haza	: No decomposition if stored and applied as directed.			
	Vapours may form explosive mixture with air.			
10.4 Con	ditions to avoid			
Conc	litions to avoid	: Heat, flames and sparks.		
10.5 Inco	mpatible materials			
Mate	rials to avoid	: Incompatible with strong acids and bases.		
10.6 Haza	ardous decomposit	on products		
	uate ventilation is re	quired. urs which can be ignited.		
		n dioxide and unburned hydrocarbons (smoke).		
SECTIO	N 11: Toxicologic	al information		
	_			
11.1 Infor	mation on toxicolo	gical effects		
	<b>e toxicity</b> nful if inhaled.			
Prod	uct:			
Acute	e oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method		
Acute	e inhalation toxicity	: Acute toxicity estimate: 19.11 mg/l		
		Exposure time: 4 h Test atmosphere: vapour		
		Method: Calculation method		
Acute	e dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method		
Com	ponents:			
	methylene-di-isocy e inhalation toxicity	<ul> <li>Assessment: The component/mixture is moderately toxic after short term inhalation.</li> </ul>		
n-bu	tyl acetate:			
	e oral toxicity	: LD50 Oral (Rat): >= 10,760 mg/kg		
Acute	e dermal toxicity	: LD50 (Rabbit): >= 5,000 mg/kg		
2-bu	toxyethyl acetate:			
	e oral toxicity	: Assessment: The component/mixture is moderately toxic after single ingestion.		
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		LD50 Oral (R	at): >= 2,400 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure tim Test atmosph	e: 2 h
Acute	dermal toxicity	: Assessment: single contac	The component/mixture is moderately toxic after the withskin.
		LD50 (Rabbit	t): >= 1,500 mg/kg
Hydro	ocarbons, C9 arom	atics:	
Acute	dermal toxicity	: LD50 (Rabbit	t): > 3,160 mg/kg
reacti	ion mixture of ethy	vlbenzene, m-xylene a	and p-xylene:
Acute	oral toxicity	: LD50 Oral (R	tat): >= 8,700 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 2 Test atmosph	
Acute	dermal toxicity	: Assessment: single contac	The component/mixture is moderately toxic after the toxic after the state of the st
Solve	ent naphtha (petrol	eum), light arom.; Lo	w boiling point naphtha -unspecified:
Acute	oral toxicity	: LD50 Oral (R	at): > 2,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Test atmosph	
Acute	dermal toxicity	: LD50 (Rabbit	t): > 2,000 mg/kg
	corrosion/irritation	n cause skin dryness or	cracking
Produ			
Rema		: May cause sl	kin irritation and/or dermatitis.
<u>Comp</u>	oonents:		
reacti	ion mixture of ethy	/lbenzene, m-xylene a	and p-xylene:
Resul	t	: irritating	
	us eye damage/ey assified based on a	e irritation vailable information.	
<u>Produ</u>	<u>uct:</u>		
	irks		cause irritation to the eyes, respiratory system



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<u>Comp</u>	oonents:		
reacti	ion mixture of ethy	/Ibenzene, m-xylene and	d p-xylene:
Resul	-	: Eye irritation	
Resp	iratory or skin sen	sitisation	
Skin	sensitisation		
May c	ause an allergic ski	in reaction.	
Resp	iratory sensitisatio	on	
Not cl	assified based on a	vailable information.	
<u>Produ</u>			
Rema	arks	: Causes sensitis	ation.
Comp	oonents:		
Hexa	methylene-di-isocy	yanate, polymer:	
Resul	lt	: Probability or ev	vidence of skin sensitisation in humans
Germ	cell mutagenicity		
Not cl	assified based on a	vailable information.	
<u>Com</u>	oonents:		
Solve	ent naphtha (petrol	eum), light arom.; Low	boiling point naphtha -unspecified:
Germ sessn			d on benzene content < 0.1% (Regulation (E0 ex VI, Part 3, Note P)
Carci	nogenicity		
Not cl	assified based on a	vailable information.	
<u>Comp</u>	oonents:		
Solve	ent naphtha (petrol	eum), light arom.; Low	boiling point naphtha -unspecified:
Carcir ment	nogenicity - Assess		d on benzene content < 0.1% (Regulation (E0 ex VI, Part 3, Note P)
Repro	oductive toxicity		
Not cl	assified based on a	vailable information.	
STOT	- single exposure	•	
	cause respiratory irri		
Comp	oonents:		
Hexa	methylene-di-isocy	yanate, polymer:	
<b>A a a a</b>	ssment	· May cause resp	iratory irritation.



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n-but	tyl acetate:	
	ssment	: May cause drowsiness or dizziness.
Hvdr	ocarbons, C9 aron	atics:
-	ssment	: May cause drowsiness or dizziness.
Asses	ssment	: May cause respiratory irritation.
react	ion mixture of eth	/Ibenzene, m-xylene and p-xylene:
	ssment	: May cause respiratory irritation.
Oshu		
	ssment	eum), light arom.; Low boiling point naphtha -unspecified: : May cause drowsiness or dizziness.
	ssment	: May cause respiratory irritation.
Not c <u>Com</u>	ponents:	vailable information.
	ssment	: May cause damage to organs through prolonged or repeated exposure.
-	ration toxicity lassified based on a	vailable information.
Com	ponents:	
-	ocarbons, C9 aron be fatal if swallowed	and enters airways.
		<b>Ibenzene, m-xylene and p-xylene:</b> and enters airways.
		eum), light arom.; Low boiling point naphtha -unspecified: and enters airways.
Furth	ner information	
Prod	uct:	
Rema	arks	<ul> <li>Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.</li> <li>Concentrations substantially above the TLV value may cause narcotic effects.</li> <li>Solvents may degrease the skin.</li> </ul>



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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Components:	
<b>n-butyl acetate:</b> 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
2-butoxyethyl acetate:	
	LC50 (Fish): >= 31 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	LC50 (Daphnia (water flea)): >= 142.5 mg/l Exposure time: 48 h
Toxicity to microorganisms :	EC50 (Bacteria): >= 2,800 mg/l
Hydrocarbons, C9 aromatics:	
Toxicity to fish :	LC50 (Fish): >= 9.2 mg/l Exposure time: 96 h
	EC50 (Daphnia (water flea)): >= 3.2 mg/l Exposure time: 48 h
Ecotoxicology Assessment	
Chronic aquatic toxicity :	Toxic to aquatic life with long lasting effects.
reaction mixture of ethylbenze	ne, m-xylene and p-xylene:
Toxicity to fish :	LC50 (Fish): >= 1 - 10 mg/l
Toxicity to daphnia and other : aquatic invertebrates	LC50 (Daphnia (water flea)): >= 1 - 10 mg/l
Toxicity to microorganisms :	EC50 (Bacteria): >= 1 - 100 mg/l
Solvent naphtha (petroleum), I	ight arom.; Low boiling point naphtha -unspecified:
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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	Toxicity	y to microorganisms	s :	EC50 (Bacteria): >	> 1 - 10 mg/l
	Ecoto	cicology Assessm	ent		
	Chroni	c aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
12.2	Persis	tence and degrada	ability		
	Comp	onents:			
	n-buty	l acetate:			
	Biodeg	radability	:	Result: Biodegrad Biodegradation: 8 Exposure time: 28 Method: OECD Te	33 %
	Stabilit	y in water	:	Degradation half li pH: 8 Remarks: Hydroly	
	Photoc	legradation	:	Remarks: Decomp	poses rapidly in contact with light.
	2-buto	xyethyl acetate:			
		radability	:	Result: Biodegrad	able
	reactio	on mixture of ethyl	benzer	ne. m-xvlene and r	o-xvlene:
		radability	:	Remarks: Readily	-
	Photoc	legradation	:	Remarks: Decomp	poses rapidly in contact with light.
12.3	Bioaco	cumulative potenti	al		
	Comp	onents:			
	n-buty	l acetate:			
	Bioacc	umulation	:	Bioconcentration f Remarks: Bioaccu	actor (BCF): 15 imulation is unlikely.
	Partitio octano	n coefficient: n- I/water	:	log Pow: 1.81	
		<b>xyethyl acetate:</b> n coefficient: n- l/water	:	log Pow: 1.51	
	•	<b>carbons, C9 aroma</b> n coefficient: n- l/water	atics: :	log Pow: < 4	



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react	tion mixture of ethyl	benzen	e, m-xylene and p	-xylene:
Bioad	ccumulation	:	Bioconcentration fa Remarks: Bioaccur	actor (BCF): 25.9 mulation is unlikely.
	ion coefficient: n- nol/water	:	log Pow: 2.77 - 3.1	5
12.4 Mob	ility in soil			
<u>Com</u>	ponents:			
Hydr	ocarbons, C9 aroma	atics:		
Mobi	lity	:	Medium: Air Content: 92.9 %	
		:	Medium: Water Content: 3.5 %	
		:	Medium: Soil Content: 1.9 %	
		:	Medium: Sediment Content: 1.8 %	t
	bution among enviror al compartments	)- :	Koc: 1.71 - 14.70 Remarks: Mobile ir	n soils
			Remarks: The proc	duct is insoluble and floats on water.
react	tion mixture of ethyl	benzen	e. m-xvlene and p	-xvlene:
Distri	bution among enviror al compartments		Koc: 537, log Koc: Remarks: Moderat The product evapo	2.73 ely mobile in soils
Stabi	lity in soil	:	Dissipation time: 23 Percentage dissipa	
12.5 Resu	ults of PBT and vPvI	3 asses	sment	
Prod	uct:			
Asse	ssment	:	to be either persist	xture contains no components considered ent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6 Othe	er adverse effects			
<b>Prod</b> Endo tial	uct: crine disrupting poter	)- :	ered to have endoor REACH Article 57(	cture does not contain components consid- crine disrupting properties according to f) or Commission Delegated regulation Commission Regulation (EU) 2018/605 at
			•	,



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Addit matic	ional ecological infor m	: An envi unprofe	f 0.1% or higher. ronmental hazard cannot be excluded in the event of ssional handling or disposal. to aquatic life with long lasting effects.
SECTION	N 13: Disposal cor	siderations	
13.1 Wast	te treatment method	ls	
Produ	uct	courses Do not o cal or us	duct should not be allowed to enter drains, water or the soil. contaminate ponds, waterways or ditches with chemi- sed container. a licensed waste management company.
Cont		. Emerative	empiring contents

Product	The product should not be allowed to enter drains courses or the soil. Do not contaminate ponds, waterways or ditches cal or used container. Send to a licensed waste management company.	with chemi-
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

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)		
ADN	:	3
ADR	:	3
RID	:	3
IMDG	:	3
ΙΑΤΑ	:	3



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## 14.4 Packing group

	ADN Packing group Classification Code Hazard Identification Number Labels	: :	III F1 30 3
	ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III F1 30 3 (D/E)
	<b>RID</b> 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) Packing instruction (LQ) Packing group Labels	::	366 Y344 III Flammable Liquids
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	::	355 Y344 III Flammable Liquids
14.5	5 Environmental hazards		
	ADN		
	Environmentally hererdeue		

Environmentally hazardous	:	no	
<b>ADR</b> Environmentally hazardous	:	no	
<b>RID</b> Environmentally hazardous	:	no	
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.



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#### 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.

## **SECTION 16: Other information**

Full text of H-Statements		
H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
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 abbreviation	ons	
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
		fifth list of indicative occupational exposure limit values
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
IL BEI	:	Israel. Safety at Work Regulations - Annex III Biological Expo- sure Indices
IL OEL	:	Israel. Safety at Work Regulations (Environmental monitoring
		and biological monitoring of workers)
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2019/1831/EU / TWA	:	Limit Value - eight hours



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2019/1831/EU / STEL	: Short term exposure limit
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
IL OEL / TLV-TWA	: Threshold Limit Value - Time Weighted (TLV-TWA)
IL OEL / TLV-STEL	: Threshold Limit Value - Short Term (TLV-STEL)
IL OEL / TLV-C	: Threshold Limit Value - Ceiling (TLV-C)

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:

H226
H332
H317
H336
H335
H412

**Classification procedure:** 

Based on product data or assessment
Calculation method



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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