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

1.1 Product identifier

Trade name

: MOBIHEL 2K HS HARDENER 4100

Product code : 41958313

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	:	Coatings and paints, thinners, paint removers
Recommended restrictions		Reserved for industrial and professional use

Recommended restrictions : Reserved for industrial and professional use. on use

1.3 Details of the supplier of the safety data sheet

Company	:	KANSAI HELIOS Slovenija d.o.o. Količevo 65 1230 Domžale Slovenia
Telephone Company	:	386 (1) 722 4383
Telefax Company	:	386 (1) 722 4310
Responsible/issuing person	:	386 (1) 722 4383 productsafety@kansai-helios.si

1.4 Emergency telephone number

Call 999 (or 112) for emergency medical attention

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

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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



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Flam	mable liquids, Categ	ory 3	H226: Flammable liquid and vapour.
Skin s	sensitisation, Catego	ory 1	H317: May cause an allergic skin reaction.
posur	Specific target organ toxicity - single ex- posure, Category 3, Central nervous system		H336: May cause drowsiness or dizziness.
	fic target organ toxic e, Category 3, Resp		H335: May cause respiratory irritation.
Long- egory	term (chronic) aquat 3	tic hazard, Cat-	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
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. 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:



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Hexamethylene-di-isocyanate, polymer n-butyl acetate Hydrocarbons, C9 aromatics hexamethylene-di-isocyanate

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)	>= 50 - < 70
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)	>= 10 - < 20
Hydrocarbons, C9 aromatics	128601-23-0 918-668-5 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	>= 10 - < 20
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	1330-20-7 905-562-9 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)	>= 1 - < 10

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		STOT RE 2; H373 Asp. Tox. 1; H304	
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	>= 2,5 - < 10
hexamethylene diisocyanate	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory sys- tem) specific concentra- tion limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 %	< 0,1

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.



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If	f swall	owed		Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Keep respiratory tract clear.	
n swallowed		·	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 M	lost im	portant symptoms	and e	effects, 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.	
4.3 In	ndicatio	on of any immedia	te meo	dical attention and special treatment needed	
Т	Treatm	ent	:	Treat symptomatically.	
SECTION 5: Firefighting measures					
	-	ishing media e extinguishing med	lia :	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
	Unsuita media	ble extinguishing	:	High volume water jet	
5 2 Sr	necial	hazards arising fr	om the	e substance or mixture	
S	-	c hazards during fire		Do not allow run-off from fire fighting to enter drains or water courses.	
	Hazard ucts	ous combustion pro	d- :	No hazardous combustion products are known	
53 Ad	dvice	for firefighters			
S		protective equipme	ent :	In the event of fire, wear self-contained breathing apparatus.	
F	Further	information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa rately in closed containments. Use a water spray to cool fully closed containers.	

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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-
miculit		miculite) and place in container for disposal according to local
		/ 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	:	 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 application 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.

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Нуд	iene measures	:		eat or drink. When using do not smoke. breaks and at the end of workday.
7.2 Cono	ditions for safe storage	ge, inc	luding any incompat	tibilities
	uirements for storage as and containers	:	ventilated place. Co fully resealed and ke label precautions. E	container tightly closed in a dry and well- ntainers which are opened must be care- ept upright to prevent leakage. Observe lectrical installations / working materials e technological safety standards.
	her information on stor conditions	r- :	Protect from moistur	re.
	her information on stor stability	r- :	No decomposition if	stored and applied as directed.
7.3 Spec	ific end use(s)			
-	cific use(s)	:	For further informati sheet.	on, refer to the product technical data
			Consult the technica stance/mixture.	al guidelines for the use of this sub-

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	using 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 information: Indicative				
		TWA	50 ppm 241 mg/m3	2019/1831/E U	
	Further inform	nation: Indicative			

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isobutyl acetate	110-19-0	TWA	150 ppm 724 mg/m3	GB EH40
		STEL	187 ppm 903 mg/m3	GB EH40
		TWA	50 ppm 241 mg/m3	2019/1831 U
	Further in	formation: Indicativ	ve	·
		STEL	150 ppm 723 mg/m3	2019/1831 U
		formation: Indicativ	-	
reaction mixture ethylbenzene, n xylene and p- xylene	n-		50 ppm 220 mg/m3	GB EH40
	stances a		absorbed through the skin. there are concerns that der	
		STEL	100 ppm 441 mg/m3	GB EH40
	stances a		absorbed through the skin. there are concerns that der	
		TWA	50 ppm 221 mg/m3	2000/39/E
	Further in skin, Indic	ative	es the possibility of significar	
		STEL	100 ppm 442 mg/m3	2000/39/E
	Further in skin, Indic		es the possibility of significar	nt uptake through th
hexamethylene- isocyanate		TWA	0,02 mg/m3 (NCO)	GB EH40
	Further in		e of causing occupational as	
		STEL	0,07 mg/m3 (NCO)	GB EH40
	Further in	formation: Capable	e of causing occupational as	sthma.

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
hexamethylene-di- isocyanate	822-06-0	isocyanate-derived diamine (Isocya-	At the end of the period of exposure	GB EH40 BAT

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nates): 1 µmol/mol creatinine (Urine)

Derived No Effect Level (DNEL):

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
Hydrocarbons, C9 aromatics	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
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-	300 mg/m3

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1		1	1		1
		Markara	Inholation	fects Acute local effects	600 mg/
		Workers Consumers	Inhalation Inhalation	Long-term systemic	600 mg/ 35,7 mg
		Consumers	Inhalation	effects Long-term local ef-	35,7 mg
		0	Laborate Cara	fects	000
		Consumers Workers	Inhalation	Acute local effects	300 mg/
		vvorkers	Dermal	Long-term systemic effects	10 mg/k bw/day
		Consumers	Oral	Acute systemic ef- fects	5 mg/kg bw/day
		Workers	Dermal	Acute systemic ef- fects	10 mg/k 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
ethylb	on mixture of penzene, m- e and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/n
		Consumers	Inhalation	Long-term local ef- fects	65,3 mg
		Workers	Inhalation	Acute systemic ef- fects	442 mg/
		Workers	Inhalation	Acute local effects	289 mg/
		Consumers	Inhalation	Acute systemic ef- fects	260 mg/
		Workers	Inhalation	Long-term local ef- fects	221 mg/
		Consumers	Inhalation	Long-term systemic effects	14,8 mg
		Consumers	Inhalation	Acute local effects	260 mg/
		Consumers	Dermal	Long-term systemic effects	108 mg/ bw/day
		Consumers	Oral	Long-term systemic effects	16 mg/k bw/day
		Workers	Dermal	Long-term systemic effects	180 mg/ bw/day
troleu Low b	nt naphtha (pe- m), light arom.; poiling point ha -unspecified	Workers	Inhalation	Long-term systemic effects	150 mg/
		Consumers	Inhalation	Long-term systemic effects	32 mg/m
		Consumers	Dermal	Long-term systemic	11 mg/k

Dermal

Oral

Long-term systemic

Long-term systemic

bw/day 25 mg/kg

bw/day

11 mg/kg

effects

effects

Consumers

Workers

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1		I		

			effects	bw/day
hexamethylene-di- isocyanate	Workers	Inhalation	Long-term systemic effects	0,035 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	0,07 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,035 mg/m3
	Workers	Inhalation	Acute local effects	0,07 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Hexamethylene-di-isocyanate,	Soil	505 mg/kg dry
polymer		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
		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
		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
	Intermittent use/release	0,327 mg/i

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hexamethylene-di-isocyanate	Soil	0,0026 mg/kg dry weight (d.w.)
	Marine water	0,00774 mg/l
	Fresh water	0,0774 mg/l
	Marine sediment	0,001344 mg/kg dry weight (d.w.)
	Fresh water sediment	0,01334 mg/kg dry weight (d.w.)
	Sewage treatment plant	8,42 mg/l
	Intermittent use/release	0,774 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			
Gloves :	Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374 butyl-rubber (> 0,6 mm; < 240 min); DIN 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. Equipment should conform to EN 14387		
Filter type :	Organic vapour type (A)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless

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Odo	ur	:	solvent-like	
Odo	ur Threshold	:	No data availa	able
pН		:	Not applicable	9
Melt	ing point/freezing point	:	-98,8 °C	
Boili	ng point/boiling range	:		nethod (principal components, lowest value)) lation method (principal components, lowest
Flas	h point	:	28 °C	
Flam	nmability (solid, gas)	:	Static-accum	ulating flammable liquid., Combustible Solids
	Upper explosion limit / Uppe flammability limit		10,5 %(V) (ca value))	lculation method (principal components, highest
	Lower explosion limit / Lower flammability limit		1,1 %(V) (calo value))	culation method (principal components, highest
Vap	Vapour pressure		< 1.100 hPa (est value)) (50 °C)	calculation method (principal components, high-
Rela	Relative vapour density		4 (calculation	method (principal components, highest value))
Rela	Relative density		No data availa	able
Den	sity	:	1,01 g/cm3	
	ıbility(ies) Vater solubility	:	partly miscible	9
S	Solubility in other solven	its :	Description: n	niscible with most organic solvents
	ition coefficient: n- nol/water	:	log Pow: < 4 (est value))	calculation method (principal components, high-
Auto	o-ignition temperature	:	423 °C (calcu value))	lation method (principal components, highest
Dec	Decomposition temperature			ition if stored and applied as directed. ecomposition products formed under fire condi-



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Visco: Vis	sity scosity, kinematic	: > 20,5 mm2/s (40 ^c	°C)
Explosive properties		: Not applicable	
Oxidizing properties		: Sustains combusti	on
•	information Ita 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.

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).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity
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		
Hydrocarbons, C9 aromatics	:			
Acute dermal toxicity	:	LD50 (Rabbit): > 3.160 mg/kg		
reaction mixture of ethylbenz	zei	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.		
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:				
Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg		
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Test atmosphere: vapour		
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg		
hexamethylene-di-isocyanate	e:			
Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.		
Acute inhalation toxicity	:	Assessment: The component/mixture is highly toxic after short term inhalation.		
Skin corrosion/irritation				
Repeated exposure may cause skin dryness or cracking.				
Product:				
Remarks	:	May cause skin irritation and/or dermatitis.		

Components:

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



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Result		: irritating	
	ous eye damage/ey lassified based on a	e irritation vailable information.	
<u>Prode</u> Rema		: Vapours may and the skin.	cause irritation to the eyes, respiratory system
Com	ponents:		
react Resul		Ibenzene, m-xylene a : Eye irritation	and p-xylene:
Resp	iratory or skin sen	sitisation	
-	sensitisation cause an allergic ski	n reaction.	
-	iratory sensitisation	n vailable information.	
<u>Produ</u> Rema		: Causes sens	itisation.
<u>Com</u>	ponents:		
Hexa Resul	methylene-di-isoc ^{It}		evidence of skin sensitisation in humans
	cell mutagenicity lassified based on a	vailable information.	
<u>Com</u>	ponents:		
	cell mutagenicity-	As- : Classified ba	w boiling point naphtha -unspecified: sed on benzene content < 0.1% (Regulation (EC) annex VI, Part 3, Note P)
	n ogenicity lassified based on a	vailable information.	
<u>Com</u>	ponents:		
	nogenicity - Assess	Classified ba	w boiling point naphtha -unspecified: sed on benzene content < 0.1% (Regulation (EC) nnex VI, Part 3, Note P)

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Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Components:

Hexamethylene-di-isocyanate, polymer:

Assessment	
------------	--

: May cause respiratory irritation.

n-butyl acetate:

Hydrocarbons, C9 aromatics:

Assessment	:	May cause drowsiness or dizziness.
------------	---	------------------------------------

Assessment : May cause respiratory irritation.

isobutyl acetate:

Assessment : May cause drowsiness or dizziness.

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

Assessment	:	May cause respiratory irritation.

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.

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.

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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
Hydrocarbons, C9 aromatics:	
Toxicity to fish :	LC50 (Fish): >= 9,2 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia (water flea)): >= 3,2 mg/l Exposure time: 48 h
Ecotoxicology Assessment	
••	Toxic to aquatic life with long lasting effects.
reaction mixture of ethylbenze	ene, 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

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Toxic	ity to microorganism	s : EC50 (Bacteria): >= 1 - 100 mg/l		
Solve	ent naphtha (petrol	eum), light arom.; Low	boiling point naphtha -unspecified:		
Toxic	ity to fish	: LC50 (Fish): >	1 - 10 mg/l		
	ity to daphnia and ot tic invertebrates	her : LC50 (Daphnia	(water flea)): > 1 - 10 mg/l		
Toxic	ity to microorganism	s : EC50 (Bacteria	EC50 (Bacteria): > 1 - 10 mg/l		
Ecot	oxicology Assessm	ent			
Chro	nic aquatic toxicity	: Toxic to aquation	c life with long lasting effects.		
12.2 Pers	istence and degrad	ability			
Com	ponents:				
n-but	tyl acetate:				
Biode	egradability	: Result: Biodegr Biodegradation Exposure time: Method: OECD	: 83 %		
Stabi	lity in water	: Degradation ha pH: 8 Remarks: Hydr			
Photo	odegradation	: Remarks: Decc	mposes rapidly in contact with light.		
react	ion mixture of ethy	lbenzene, m-xylene an	d p-xylene:		
Biode	egradability	: Remarks: Read	lily biodegradable.		
Photo	odegradation	: Remarks: Decc	mposes rapidly in contact with light.		
12.3 Bioa	ccumulative potent	ial			
Com	ponents:				
n-bu	tyl acetate:				
Bioad	cumulation		on factor (BCF): 15 ccumulation is unlikely.		
	ion coefficient: n- ol/water	: log Pow: 1,81			
Hydr	ocarbons, C9 arom	atics:			
-	ion coefficient: n-				
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octano	ol/water			
isobu	tyl acetate:			
	on coefficient: n- ol/water	:	log Pow: 1,72	
reacti	on mixture of ethyl	benzer	ne, m-xylene and p	-xylene:
Bioac	cumulation	:	Bioconcentration fa Remarks: Bioaccu	actor (BCF): 25,9 mulation is unlikely.
	on coefficient: n- ol/water	:	log Pow: 2,77 - 3,1	5
12.4 Mobil	lity in soil			
<u>Comp</u>	oonents:			
-	ocarbons, C9 aroma	atics:		
Mobili	ty	:	Medium: Air Content: 92,9 %	
		:	Medium: Water Content: 3,5 %	
		:	Medium: Soil Content: 1,9 %	
		:	Medium: Sediment Content: 1,8 %	t
	oution among enviror al compartments)- :	Koc: 1,71 - 14,70 Remarks: Mobile ii	n soils
			Remarks: The proc	duct is insoluble and floats on water.
reacti	on mixture of ethyl	benzer	ne, m-xylene and p	-xylene:
	bution among enviror al compartments)- :	Koc: 537, log Koc: Remarks: Moderat The product evapo	ely mobile in soils
Stabili	ity in soil	:	Dissipation time: 2	3 d ation: 50 % (DT50)

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

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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 (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological infor- :	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
mation	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 chemi- cal or used container. Send to a licensed waste management company.
	Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

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

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ΙΑΤΑ		: Paint	
14.3 Tran	sport hazard class(e)	
ADN		: 3	
ADR		: 3	
RID		: 3	
IMDO	3	: 3	
ΙΑΤΑ	L.	: 3	
14.4 Pack	king group		
Class	ing group sification Code Ird Identification Numb Is	: III : F1 or : 30 : 3	
Class Haza Labe	ing group sification Code Ird Identification Numb	: III : F1 : 30 : 3 : (D/E)	
Class	ing group sification Code ırd Identification Numb Is	: III : F1 or : 30 : 3	
Labe	ing group	: III : 3 : F-E, <u>S-E</u>	
	(Cargo) ing instruction (cargo	: 366	
Pack	ing instruction (LQ) ing group	: Y344 : III : Flammable Liquids	
Pack ger a Pack Pack	(Passenger) ing instruction (passer ircraft) ing instruction (LQ) ing group	: Y344 : III	
Labe	^{IS} ronmental hazards	: Flammable Liquids	
14.3 ENVI	ionmental hazards		

ADN

Environmentally hazardous : no

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ADR

Environmentally hazardous : no **RID** 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.

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable
Control of Major Accident Hazards Regulations P5c 2015 (COMAH)	FLAMMABLE LIQUIDS
34	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

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			purposes and with similar proper- ties as regards flammability and

ties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 45,95 %

Other regulations:

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H225 H226 H302 H304	: :	Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways.			
H312	÷	Harmful in contact with skin.			
H315 H317 H210	:	Causes skin irritation. May cause an allergic skin reaction.			
H319 H330	:	Causes serious eye irritation. Fatal if inhaled.			
H332 H334	:	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties 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. 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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Resp. 3		:	Respiratory sensitisa	ation		
Skin Irr		:	: Skin irritation			
Skin Se		:	Skin sensitisation			
STOT		:	: 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			
				upational exposure limit values		
2019/1831/EU		:	Europe. Commission Directive 2019/1831/EU establishing a			
			fifth list of indicative occupational exposure limit values			
GB EH40		:	UK. EH40 WEL - Workplace Exposure Limits			
GB EH	40 BAT	:	UK. Biological monitoring guidance values			
2000/39/EC / TWA		:	Limit Value - eight hours			
2000/39/EC / STEL		:	Short term exposure limit			
2019/1	831/EU / TWA	:	Limit Value - eight h	ours		
2019/1	831/EU / STEL	:	Short term exposure	e limit		
GB EH	40 / TWA	:		limit (8-hour TWA reference period)		
GB EH	40 / STEL	:		e limit (15-minute reference period)		

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



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Classification of the m	nixture:	Classification procedure:
Flam. Liq. 3 Skin Sens. 1	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
Aquatic Chronic 3	H412	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information 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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