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



MOBIHEL 2K HS HARDENER 4300

Version	Revision Date:	SDS Number:	Date of last issue: 23.11.2021
2.0	26.07.2023	MAT000477749	Date of first issue: 23.11.2021
		GB/EN	

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

1.1 Product identifier

Trade name

: MOBIHEL 2K HS HARDENER 4300

Product code : 47774901

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	: 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

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)

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021	
Flam	mable liquids, Categ	jory 3	H226: Flammable liquid and vapour.	
Acute	e toxicity, Category 2	4	H332: Harmful if inhaled.	
Skin s	sensitisation, Catego	ory 1	H317. May cause an allergic skin reaction.	
Speci	ific target organ toxi	city - single ex-	H335: May cause respiratory irritation.	
posu	re. Category 3. Rest	piratory system		
Long	posure, Category 3, Respiratory system Long-term (chronic) aquatic hazard, Cat-		H412: Harmful to aquatic life with long lasting ef-	
_	egory 3		fects.	

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. H332 Harmful if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
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:

Hexamethylene-di-isocyanate, polymer 2-butoxyethyl 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.

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Hexamethylene diisocyanate, oligo- mers	28182-81-2	Acute Tox. 4; H332 Skin Sens. 1; H317	>= 50 - < 70
	500-060-2	STOT SE 3; H335	
	01-2119485796-17	(Respiratory sys- tem)	
2-butoxyethyl acetate	112-07-2	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 10 - < 20
	203-933-3	Acute Tox. 4, H312	
	607-038-00-2		
	01-2119475112-47		
n-butyl acetate	123-86-4	Flam. Liq. 3; H226 STOT SE 3; H336	>= 10 - < 20
	204-658-1	(Central nervous	
	607-025-00-1	system)	
Likudua aankanaa (00 anamatiaa	01-2119485493-29		0.5 40
Hydrocarbons, C9 aromatics	128601-23-0	Flam. Liq. 3; H226 STOT SE 3; H336	>= 2,5 - < 10
	918-668-5	(Central nervous	
	01-2119455851-35	system)	
		STOT SE 3; H335	
		(Respiratory sys-	
		tem) Asp. Tox. 1; H304	
		Aquatic Chronic 2;	
		H411	
solvent naphtha (petroleum), light	64742-95-6	Flam. Liq. 3; H226	>= 2,5 - < 10
aromatic	005 400 0	STOT SE 3; H336	
	265-199-0 649-356-00-4	(Central nervous system)	
	01-2119455851-35	STOT SE 3; H335	
		(Respiratory sys-	
		tem)	
		Asp. Tox. 1; H304	
		Aquatic Chronic 2;	
		H411	
hexamethylene diisocyanate	822-06-0	Acute Tox. 4; H302 Acute Tox. 2; H330	< 0,1
	212-485-8	Skin Irrit. 2, H315	
	615-011-00-1	Eye Irrit. 2; H319	
	01-2119457571-37	Resp. Sens. 1;	
		H334	
		Skin Sens. 1; H317	

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



MOBIHEL 2K HS HARDENER 4300

/ersion 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
			STOT SE 3; H335 (Respiratory sys- tem) specific concentra- tion limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 %
Subst	ances with a workpl	ace exposure limit	
ethyl 3	3-ethoxypropionate	763-69-9 212-112-9 01-2119463	Flam. Liq. 3; H226 >= 10 - < 20

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	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 		
In case of skin contact	: 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. 		
4.2 Most important symptoms and effects, both acute and delayed			

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

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



MOBIHEL 2K HS HARDENER 4300

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. 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.	

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



MOBIHEL 2K HS HARDENER 4300

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).
-------------------------	---	--

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
	Advice on protection against fire and explosion	:	be employed in any process in which this mixture is being used. 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	:	Wash hands before breaks and at the end of workday.
7.2	Conditions for safe storage, i	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.

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



MOBIHEL 2K HS HARDENER 4300

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis			
		of exposure)					
Hexamethylene-di- isocyanate, poly-	28182-81-2	TWA	0,02 mg/m3 (NCO)	GB EH40			
mer							
	Further inform		ausing occupational asthma.				
		STEL	0,07 mg/m3	GB EH40			
			(NCO)				
			using occupational asthma.	1			
2-butoxyethyl ace-	112-07-2	TWA	20 ppm	GB EH40			
tate			133 mg/m3				
			bed through the skin. The as				
			are concerns that dermal ab	sorption will			
	lead to system	nic toxicity.					
		STEL	50 ppm	GB EH40			
			332 mg/m3				
	Further inform	nation: Can be absor	bed through the skin. The as	signed sub-			
	stances are th	nose for which there	are concerns that dermal ab	sorption will			
		lead to systemic toxicity.					
	, i i i i i i i i i i i i i i i i i i i	TWA	20 ppm	2000/39/EC			
			133 mg/m3				
	Further information: Identifies the possibility of significant uptake through the						
	skin, Indicative						
		STEL	50 ppm	2000/39/EC			
		• •	333 mg/m3				
	Further information: Identifies the possibility of significant uptake through the						
	skin, Indicative						
n-butyl acetate	123-86-4	TWA	150 ppm	GB EH40			
in bulyr abolato	120 00 1		724 mg/m3	OD LITIO			
		STEL	200 ppm	GB EH40			
		OTEL	966 mg/m3	OD LI 140			
		STEL	150 ppm	2019/1831/E			
		SILL	723 mg/m3	U			
	Further information: Indicative						
		TWA	50 ppm	2019/1831/E			
		IVVA	50 ppm				
	241 mg/m3 U Further information: Indicative						
1							
hexamethylene-di-	822-06-0	TWA	0,02 mg/m3	GB EH40			
isocyanate							
	Further information: Capable of causing occupational asthma.						
		STEL	0,07 mg/m3	GB EH40			

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0 Revision Date: 26.07.2023

SDS Number: MAT000477749 GB/EN Date of last issue: 23.11.2021 Date of first issue: 23.11.2021

	(NCO)	
Further inform	ation: Capable of causing occupational asthma.	

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
hexamethylene-di- isocyanate	822-06-0	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

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
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
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

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



MOBIHEL 2K HS HARDENER 4300

rsion Revision Date:) 26.07.2023		SDS Numb MAT00047 GB/EN		Date of last issue: 23.11.20 Date of first issue: 23.11.20	
		Consumers	Oral	Long-term systemic effects	1,2 mg/kg bw/day
n-buty	yl acetate	Workers	Inhalation	Acute systemic ef- fects	600 mg/m
		Workers	Inhalation	Acute local effects	600 mg/m
		Workers	Inhalation	Long-term systemic effects	48 mg/m3
		Workers	Inhalation	Long-term local ef- fects	300 mg/m
		Consumers	Inhalation	Acute systemic ef- fects	300 mg/m
		Consumers	Inhalation	Acute local effects	300 mg/m
		Consumers	Inhalation	Long-term systemic effects	12 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	35,7 mg/n
		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
Hydro aroma	ocarbons, C9 atics	Workers	Inhalation	Long-term systemic effects	150 mg/m
		Workers	Oral	Long-term systemic effects	150 mg/m
		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
Solvent naphtha (pe- troleum), light arom.; Low boiling point naphtha -unspecified	Workers	Inhalation	Long-term systemic effects	150 mg/m	
	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
hexar isocya	nethylene-di- anate	Workers	Inhalation	Long-term systemic effects	0,035 mg

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021

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, 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 weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	1 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
ethyl 3-ethoxypropionate	Soil	0,048 mg/kg dry weight (d.w.)
	Marine water	0,00609 mg/l
	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
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
hexamethylene-di-isocyanate	Soil	0,0026 mg/kg dry weight (d.w.)
	Marine water	0,00774 mg/l

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



MOBIHEL 2K HS HARDENER 4300

2.0 26.07.2023 MAT000477749 Date of first issue: 23.11.202 GB/EN	Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
---	----------------	------------------------------	--------------------------------------	---

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 equipmen	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); DIN EN374 PE laminate (> 0,1 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 Colour Odour Odour Threshold	 liquid in accordance with the product description solvent-like No data available
рН	: Not applicable
Melting point/freezing point	: -78,0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	: 126 °C (calculation method (principal components, lowest value))
Flash point	: 50 °C

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



MOBIHEL 2K HS HARDENER 4300

Versio 2.0	n Revisio 26.07.	on Date: 2023		Number: 00477749 N	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
FI	lammability (s	solid, gas)	:	Static-accumula	ating flammable liquid., Combustible Solids
	pper explosic ammability lin		oer :	10,1 %(V) (calc value))	ulation method (principal components, highest
	ower explosic ammability lin		ver :	1,2 %(V) (calcu value))	lation method (principal components, highest
R	elative vapou	r density	:	No data availab	le
R	elative densit	у	:	No data availab	le
D	ensity		:	1,04 g/cm3	
S	olubility(ies) Water solut Solubility in		: nts :	immiscible, part Description: mis	ly soluble scible with most organic solvents
	artition coeffic ctanol/water	cient: n-	:	log Pow: 1,81 (highest value))	calculation method (principal components,
A	uto-ignition te	emperature	:	280 °C (calcula value))	tion method (principal components, highest
D	ecomposition	temperatu	re :		on if stored and applied as directed. omposition products formed under fire condi-
Vi	iscosity Viscosity, ki	inematic	:	> 20,5 mm2/s (·	40 °C)
E	xplosive prop	erties	:	Not applicable	
0	xidizing prop	erties	:	Sustains combu	ustion
9.2 Ot	her informat	ion			

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.

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
10.3 Poss	ibility of hazardous	s reactions	
Hazaı	dous reactions	: No decomposition	on if stored and applied as directed.
		Vapours may for	m explosive mixture with air.
10.4 Cond	litions to avoid		
Condi	tions to avoid	: Heat, flames and	d sparks.
10.5 Incor	npatible materials		
Mater	ials to avoid	: Incompatible wit	h strong acids and bases.
	rdous decompositi		

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 Harmful if inhaled.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 15,35 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Components:		
Hexamethylene-di-isocyan	ate,	polymer:
Acute inhalation toxicity	:	Assessment: The component/mixture is moderately toxic after short term inhalation.
2-butoxyethyl acetate:		
Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.
		LD50 Oral (Rat): >= 2.400 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): >= 50 mg/l



MOBIHEL 2K HS HARDENER 4300

ersion 0	Revision Date: 26.07.2023		Number:)00477749 N	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
			Exposure time: 2 Test atmosphere:	
Acute	e dermal toxicity	:	Assessment: The single contact with	component/mixture is moderately toxic after nskin.
			LD50 (Rabbit): >=	= 1.500 mg/kg
n-but	yl acetate:			
Acute	oral toxicity	:	LD50 Oral (Rat): :	>= 10.760 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >=	= 5.000 mg/kg
Hydro	ocarbons, C9 arom	atics:		
-	e dermal toxicity		LD50 (Rabbit): > 3	3.160 mg/kg
Solve	ent naphtha (petrole	eum), li	ght arom.; Low bo	biling point naphtha -unspecified:
Acute	e oral toxicity	:	LD50 Oral (Rat): :	> 2.000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 m Test atmosphere:	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2.000 mg/kg
hexa	methylene-di-isocy	anate:		
	e oral toxicity	:	Assessment: The single ingestion.	component/mixture is moderately toxic after
Acute	inhalation toxicity	:	Assessment: The term inhalation.	component/mixture is highly toxic after short
	corrosion/irritation		information.	
Prod	uct:			
Rema	arks	:	May cause skin ir	ritation and/or dermatitis.
	us eye damage/eye			
	lassified based on av	vailable	information.	
Prod				
Rema	arks	:	Vapours may cau and the skin.	se irritation to the eyes, respiratory system

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
		GB/EN	

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : Causes sensitisation.

Components:

Hexamethylene-di-isocyana	ite, j	polymer:
Result	:	Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

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)

Carcinogenicity

Not classified based on available information.

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.

STOT - single exposure

May cause respiratory irritation.

Components:

Hexamethylene-di-isocyanate, polymer:

Assessment

: May cause respiratory irritation.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

2

Hydrocarbons, C9 aromatics:

Assessment

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
----------------	---------------------------	--------------------------------------	---

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.

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9 aromatics:

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.

- Product:
- Remarks

: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-butoxyethyl acetate:

Toxicity to fish	:	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
n-butyl acetate:		
Toxicity to algae/aquatic	:	NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l
•	:	NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l EC50 (Desmodesmus subspicatus (green algae)): >= 647,7 mg/l Exposure time: 72 h

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023		Number: 000477749 N	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
Toxic	city to microorganisms	:	IC50 (Tetrahymena Exposure time: 40 h	
Hvdr	ocarbons, C9 aroma	tics:		
-	city to fish		LC50 (Fish): >= 9,2 Exposure time: 96 h	5
	city to daphnia and oth tic invertebrates		EC50 (Daphnia (wa Exposure time: 48 h	
Ecot	oxicology Assessme	ent		
	•••		Toxic to aquatic life	with long lasting effects.
Solv	ent naphtha (petrole	um), li	ight arom.; Low boil	ing point naphtha -unspecified:
Toxic	city to fish	:	LC50 (Fish): > 1 - 1	0 mg/l
	city to daphnia and oth tic invertebrates	ner :	LC50 (Daphnia (wa	ter flea)): > 1 - 10 mg/l
	city to microorganisms	:	EC50 (Bacteria): > 7	1 - 10 mg/l
Ecot	oxicology Assessme	ant		
			Toxic to aquatic life	with long lasting effects.
12.2 Pers	istence and degrada	bility		
<u>Com</u>	ponents:			
2-bu	toxyethyl acetate:			
Biode	egradability	:	Result: Biodegradal	ble
n-bu	tyl acetate:			
Biode	egradability	:	Result: Biodegradal	
			Biodegradation: 83 Exposure time: 28 c Method: OECD Tes	ł
Stab	ility in water	:	Degradation half life	e: 78 d
			pH: 8 Remarks: Hydrolyse	es slowly.
Phot	odegradation	:	Remarks: Decompo	oses rapidly in contact with light.
12.3 Bioa	ccumulative potentia	al		
Com	ponents:			

2-butoxyethyl acetate:

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



MOBIHEL 2K HS HARDENER 4300

Vers 2.0	ion	Revision Date: 26.07.2023		Number: 000477749 N	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
	Partitic octano	n coefficient: n- l/water	:	log Pow: 1,51	
	n-buty	l acetate:			
	-	umulation	:		factor (BCF): 15 cumulation is unlikely.
	Partitic octano	n coefficient: n- I/water	:	log Pow: 1,81	
	Hydro	carbons, C9 aroma	atics:		
	Partitic octano	n coefficient: n- I/water	:	log Pow: < 4	
	ethyl 3	ethoxypropionate	e:		
	Partitic octano	n coefficient: n- I/water	:	log Pow: 1,35	
12.4	Mobili	ty in soil			
	Comp	onents:			
	Hydro	carbons, C9 aroma	atics:		
	Mobilit	y	:	Medium: Air Content: 92,9 %	
			:	Medium: Water Content: 3,5 %	
			:	Medium: Soil Content: 1,9 %	
			:	Medium: Sedime Content: 1,8 %	ent
		ution among enviror compartments	n- :	Koc: 1,71 - 14,70 Remarks: Mobile	
				Remarks: The pr	oduct is insoluble and floats on water.
12.5	Result	s of PBT and vPvI	B asse	essment	
	<u>Produ</u>	<u>ct:</u>			
	Assess	sment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of

12.6 Other adverse effects

Product:

Endocrine disrupting poten-	:	The substance/mixture does not contain components consid-
-----------------------------	---	---



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023	SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
tial		REACH Article 5 (EU) 2017/2100	ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at
Add mat	itional ecological infor ion	unprofessional h	higher. I hazard cannot be excluded in the event of andling or disposal. ic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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

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



MOBIHEL 2K HS HARDENER 4300

Version 2.0	Revision Date: 26.07.2023		Number: 000477749 N	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
RID		:	3	
IMDG	;	:	3	
ΙΑΤΑ		:	3	
14.4 Pack	ing group			
Class	ng group ification Code rd Identification Numb s	: er : :	III F1 30 3	
Class Haza Label Tunne	ing group ification Code rd Identification Numb s el restriction code	er : :	III F1 30 3 (D/E)	
Class	ng group ification Code rd Identification Numb s	: er : :	III F1 30 3	
Label	ng group	:	III 3 F-E, <u>S-E</u>	
Packi aircra Packi	ing instruction (LQ)	:	366 Y344 III Flammable Liquids	
IATA Packi ger ai Packi	(Passenger) ing instruction (passer ircraft) ing instruction (LQ) ing group)- : : :	355 Y344 III Flammable Liquids	
14.5 Envir	ronmental hazards			
ADR	onmentally hazardous		no	
RID	onmentally hazardous onmentally hazardous		no	

UK REACH Regulations SI 2019/758



MOBIHEL 2K HS HARDENER 4300

Version	Revision Date:	SDS Number:	Date of last issue: 23.11.2021
2.0	26.07.2023	MAT000477749 GB/EN	Date of first issue: 23.11.2021

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) UK REACH Candidate list of substances of very high	 Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 Not applicable
concern (SVHC) for Authorisation The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit- ain)	: Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete 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 purposes and with similar proper- ties as regards flammability and environmental hazards as the products referred to in points (a) to (d)
emissions (integrated	of 24 November 2010 on industrial pollution prevention and control) punds (VOC) content: 46,15 %
Other regulations:	

UK REACH Regulations SI 2019/758



MOBIHEL 2K HS HARDENER 4300

Version	Revision Date:	SDS Number:	Date of last issue: 23.11.2021
2.0	26.07.2023	MAT000477749 GB/EN	Date of first issue: 23.11.2021

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 toxt of U Statemonto

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.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficul-
		ties if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H411	:	Toxic to aquatic life with long lasting effects.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Resp. Sens.	:	Respiratory sensitisation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
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
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2019/1831/EU / TWA	:	Limit Value - eight hours
2019/1831/EU / STEL	:	Short term exposure limit
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by

UK REACH Regulations SI 2019/758



MOBIHEL 2K HS HARDENER 4300

Version Revision Date 2.0 26.07.2023	: SDS Number: MAT000477749 GB/EN	Date of last issue: 23.11.2021 Date of first issue: 23.11.2021
	OD/LIN	

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

Classification of the m	ixture:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Flam. Liq. 3 Acute Tox. 4 Skin Sens. 1 STOT SE 3 Aquatic Chronic 3	H412	Calculation method

Further information

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.

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



MOBIHEL 2K HS HARDENER 4300

Version Revision Date: SDS Number: Date of last issue: 23.11.2021 2.0 26.07.2023 MAT000477749 Date of first issue: 23.11.2021 GB/EN

GB / EN