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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

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

1.1 Product identifier

Trade name : MOBIHEL 2K trdilec 8100

Product code : 479002

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

Use of the Sub- : Coatings and paints, thinners, paint removers

stance/Mixture

Recommended restrictions

on use

: Reserved for industrial and professional 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 trdilec 8100

Version **Revision Date:** SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

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

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

Long-term (chronic) aquatic hazard, Cat-

egory 3

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting ef-

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.

> May cause an allergic skin reaction. H317

Harmful if inhaled. H332

May cause respiratory irritation. H335 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.

Prevention: Precautionary statements

> 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.

Wear protective gloves/ protective clothing/ eye P280

protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

#### water.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Hexamethylene-di-isocyanate, polymer n-butyl acetate 2-butoxyethyl acetate Hydrocarbons, C9 aromatics

### **Additional Labelling**

#### 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, oligomers	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 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	64742-95-6 918-668-5 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;	>= 2,5 - < 10

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

		H411	
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 system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 10
solvent naphtha (petroleum), light aromatic	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2,5

For explanation of abbreviations see section 16.

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

# 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

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



# MOBIHEL 2K trdilec 8100

Version Revision Date: 22.05.2024 2.1

SDS Number: MAT000479002 Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

GB/EN

If symptoms persist, call a physician. Take victim immediately to hospital.

#### 4.2 Most important symptoms and effects, both acute and delayed

Risks May cause an allergic skin reaction.

Harmful if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

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 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 substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

#### 5.3 Advice for firefighters

for firefighters

Special protective equipment : 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-

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

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 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, vermiculite) 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 be employed in any process in which this mixture is being

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

used.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including 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 carefully 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.

#### **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	2019/1831/E

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

			723 mg/m3	ΙU
	Further inforn	nation: Indicative		1
		TWA	50 ppm 241 mg/m3	2019/1831/E U
	Further inforn	nation: Indicative		1
2-butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m3	GB EH40
		nose for which there	rbed through the skin. The a are concerns that dermal at	
		STEL	50 ppm 332 mg/m3	GB EH40
		nose for which there	rbed through the skin. The a are concerns that dermal ab	
		TWA	20 ppm 133 mg/m3	2000/39/EC
	Further inforn skin, Indicativ		possibility of significant upta	ke through the
		STEL	50 ppm 333 mg/m3	2000/39/EC
	Further inforn skin, Indicativ		possibility of significant upta	ke through the
reaction mixture of ethylbenzene, m- xylene and p- xylene	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
,		nose for which there	rbed through the skin. The a are concerns that dermal at	
		STEL	100 ppm 441 mg/m3	GB EH40
		nose for which there	rbed through the skin. The a are concerns that dermal at	
		TWA	50 ppm 221 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant upta	ke through the
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant upta	ke through the

# **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Hexamethylene-di-	28182-81-2	isocyanate-derived	At the end of the	GB EH40
isocyanate, polymer		diamine (Isocya-	period of exposure	BAT
		nates): 1 µmol/mol		

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

		creatinine (Urine)		
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	methyl hippuric acid: 650 Millimo- les per mole creat- inine (Urine)	After shift	GB EH40 BAT

# **Derived No Effect Level (DNEL):**

according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	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 effects	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 effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	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-	120 mg/kg

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

			fects	bw/day
	Consumers	Dermal	Long-term systemic	102 mg/kg
	<u> </u>	<u> </u>	effects	bw/day
	Consumers	Dermal	Acute systemic ef-	72 mg/kg
			fects	bw/day
	Consumers	Oral	Acute systemic ef-	36 mg/kg
Lludra a sub a ra CO	\/\/ a =   - a = a	lub alatian	fects	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
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 (petroleum), 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

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

### **Predicted No Effect Concentration (PNEC):**

according to Regulation (EC) No. 1907/2006

Cording to Regulation (EC) No. 1907/ Substance name	Environmental Compartment	Value
Hexamethylene-di-isocyanate,	Soil	505 mg/kg dry
polymer		weight (d.w.)
p 6.)6.	Marine water	0,01 mg/l
	Fresh water	0,1 mg/l
	Marine sediment	253 mg/kg dry
	I manife dealinem	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
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
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

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



# MOBIHEL 2K trdilec 8100

Version Revision Date: 22.05.2024 2.1

SDS Number: MAT000479002 Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

GB/EN

Tightly fitting safety goggles

Hand protection

Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 Gloves

> butyl-rubber (> 0,6 mm; < 240 min); ISO EN374 Viton® (> 0,6 mm; < 240 min); ISO EN374 PE laminate (> 0,1 mm; < 240 min); ISO EN374

Remarks The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions 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.

Use respiratory protection unless adequate local exhaust ven-Respiratory protection

tilation is provided or exposure assessment demonstrates that

exposures are within recommended exposure guidelines.

Filter type Organic vapour type (A)

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

### 9.1 Information on basic physical and chemical properties

Appearance liquid

Colour colourless

Odour solvent-like

Odour Threshold No data available

Not applicable pΗ

-78,0 °C Melting point/freezing point

(calculation method (principal components, lowest value))

Boiling point/boiling range 126 °C (calculation method (principal components, lowest

value))

34 °C Flash point

Flammability (solid, gas) Static-accumulating flammable liquid., Combustible Solids

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



### MOBIHEL 2K trdilec 8100

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

Upper explosion limit / Upper : 8,4 %(V)

flammability limit (calculation method (principal components, highest value))

Lower explosion limit / Lower : 1,1 %(V)

flammability limit (calculation method (principal components, highest value))

Vapour pressure : < 1.100 hPa (calculation method (principal components, high-

est value))

(50 °C)

Relative vapour density : 5,5 (calculation method (principal components, highest value))

(Air = 1.0)

Relative density : 0,92 (calculation method (principal components, highest val-

ue))

Density : 0,991 g/cm3

Solubility(ies)

Water solubility : immiscible, partly soluble

Solubility in other solvents : Description: miscible with most organic solvents

Partition coefficient: n-

octanol/water

log Pow: < 4 (calculation method (principal components, high-

est value))

Ignition temperature : 280 °C (calculation method (principal components, highest

value))

Decomposition temperature : No decomposition if stored and applied as directed.

Hazardous decomposition products formed under fire condi-

tions.

Viscosity

Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Flow time : 30 - 32 s at 20 °C

Cross section: 3 mm

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

Method: ISO 2431

Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

9.2 Other information

No data available

VOC : (Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control))

57,4 %

# **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

No hazardous decomposition products are known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

### **Acute toxicity**

Harmful if inhaled. Harmful if inhaled.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 18,44 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

**Components:** 

Hexamethylene-di-isocyanate, polymer:

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 10.760 mg/kg

Acute dermal toxicity : LD50 (Rabbit): >= 5.000 mg/kg

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

Exposure time: 2 h Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after

single contact withskin.

LD50 (Rabbit): >= 1.500 mg/kg

Hydrocarbons, C9 aromatics:

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

reaction mixture of ethylbenzene, 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

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: 22.05.2024

SDS Number: MAT000479002 Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

GB/EN

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

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking. Repeated exposure may cause skin dryness or cracking.

**Product:** 

Remarks : May cause skin irritation and/or dermatitis.

**Components:** 

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

Result : irritating

Serious eye damage/eye irritation

Not classified based on available information.

Not classified due to lack of data.

**Product:** 

Remarks : Vapours may cause irritation to the eyes, respiratory system

and the skin.

**Components:** 

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

Result : Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

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



### MOBIHEL 2K trdilec 8100

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

#### Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

#### **Components:**

### Hexamethylene-di-isocyanate, polymer:

Result : Probability or evidence of skin sensitisation in humans

### Germ cell mutagenicity

Not classified based on available information.

Not classified due to lack of data.

#### **Components:**

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

Germ cell mutagenicity- As- : Classified based on benzene content < 0.1% (Regulation (EC)

sessment 1272/2008, Annex VI, Part 3, Note P)

#### Carcinogenicity

Not classified based on available information.

Not classified due to lack of data.

#### **Components:**

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

Carcinogenicity - Assess- : Classified based on benzene content < 0.1% (Regulation (EC)

ment 1272/2008, Annex VI, Part 3, Note P)

#### Reproductive toxicity

Not classified based on available information.

Not classified due to lack of data.

#### STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause drowsiness or dizziness.

### **Components:**

### Hexamethylene-di-isocyanate, polymer:

Assessment : May cause respiratory irritation.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

Hydrocarbons, C9 aromatics:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

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.

Not classified due to lack of data.

**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.

Not classified due to lack of data.

**Components:** 

Hydrocarbons, C9 aromatics:

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

**Further information** 

**Product:** 

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

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



### MOBIHEL 2K trdilec 8100

Version Revision Date: 22.05.2024 2.1

SDS Number: MAT000479002 Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

GB/EN

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

2-butoxyethyl acetate:

Toxicity to fish LC50 (Fish): >= 31 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : 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

aquatic invertebrates

Toxicity to daphnia and other : 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 ethylbenzene, m-xylene and p-xylene:

Toxicity to fish : LC50 (Fish): >= 1 - 10 mg/l

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): >= 1 - 10 mg/l

Toxicity to microorganisms EC50 (Bacteria): >= 1 - 100 mg/l

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



# MOBIHEL 2K trdilec 8100

Version Revision Date: SDS Number: 2.1 22.05.2024

MAT000479002

Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

GB/EN

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

: LC50 (Fish): > 1 - 10 mg/l Toxicity to fish

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia (water flea)): > 1 - 10 mg/l

EC50 (Bacteria): > 1 - 10 mg/l Toxicity to microorganisms

**Ecotoxicology Assessment** 

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

**Components:** 

n-butyl acetate:

Biodegradability Result: Biodegradable

Biodegradation: 83 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Stability in water Degradation half life: 78 d

pH: 8

Hydrolyses slowly.

Photodegradation Decomposes rapidly in contact with light.

2-butoxyethyl acetate:

Biodegradability Result: Biodegradable

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

Biodegradability Readily biodegradable.

Photodegradation Decomposes rapidly in contact with light.

12.3 Bioaccumulative potential

**Components:** 

n-butyl acetate:

Bioaccumulation Bioconcentration factor (BCF): 15

Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 1,81

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: 2.1 22.05.2024

MAT000479002 GB/EN

Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

2-butoxyethyl acetate:

Partition coefficient: n-

octanol/water

log Pow: 1,51

Hydrocarbons, C9 aromatics:

Partition coefficient: n-

octanol/water

log Pow: < 4

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

Bioaccumulation Bioconcentration factor (BCF): 25,9

Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2,77 - 3,15

12.4 Mobility in soil

**Components:** 

Hydrocarbons, C9 aromatics:

Mobility Medium: Air

Content: 92,9 %

Medium: Water Content: 3,5 %

Medium: Soil Content: 1,9 %

Medium: Sediment Content: 1,8 %

Distribution among environmental compartments

Koc: 1,71 - 14,70 Mobile in soils

The product is insoluble and floats on water.

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

Distribution among environ-

mental compartments

Koc: 537, log Koc: 2,73 Moderately mobile in soils

The product evaporates from soil.

Stability in soil Dissipation time: 23 d

Percentage dissipation: 50 % (DT50)

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



### MOBIHEL 2K trdilec 8100

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Other adverse effects

#### **Product:**

Endocrine disrupting poten-

tial

This substance/mixture does not contain components consid-

ered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with 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
IATA : UN 1263

### 14.2 UN proper shipping name

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



# **MOBIHEL 2K trdilec 8100**

Version 2.1

Revision Date: 22.05.2024

SDS Number: MAT000479002

Date of last issue: 26.07.2023 Date of first issue: 26.08.2021

GB/EN

ADN : PAINT
ADR : PAINT
RID : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

Class Subsidiary risks

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

### 14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**ADR** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

**RID** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**IMDG** 

Packing group : III
Labels : 3
EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

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



### MOBIHEL 2K trdilec 8100

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

Packing instruction (passen: 355

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : no

**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 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

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

GB Export and import of hazardous chemicals - Prior : Not applicable

Informed Consent (PIC) Regulation

Control of Major Accident Hazards Regulations P5c FLAMMABLE LIQUIDS

2015 (COMAH)

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 properties 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: 57,4 %

### 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**

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.

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

H373 : May cause damage to organs through prolonged or repeated

exposure.

H411 : Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

2019/1831/EU : Europe, Commission Directive 2019/1831/EU establishing a

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)
GB EH40 / STEL : Short-term exposure 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 - (Quanti-

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



# **MOBIHEL 2K trdilec 8100**

Version Revision Date: SDS Number: Date of last issue: 26.07.2023 2.1 22.05.2024 MAT000479002 Date of first issue: 26.08.2021

GB/EN

tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Classification of the mixture:		Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

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