according to Regulation (EC) No. 1907/2006

## **MOBIHEL SOFT UNI PUTTY**



Version Revision Date: SDS Number: Date of last issue: -

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

1.1 Product identifier

Trade name : MOBIHEL SOFT UNI PUTTY

Product code : 40090212

Unique Formula Identifier

(UFI)

: 4H5H-C1P0-F00A-HX9Y

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

Use of the Sub- : PC9a 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

- emergency number (for cases of poisoning, national number - like 911)

The National Poisons Information Centre, Ireland: 01 809 2166

National Emergency Health Line: 999

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

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

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

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Skin sensitisation, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 1 H317: May cause an allergic skin reaction. H361d: Suspected of damaging the unborn child. H372: Causes damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or re-

peated exposure.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

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:

styrene cobalt bis(2-ethylhexanoate) cobalt(2+) propionate maleic anhydride maleic anhydride

#### **Additional Labelling**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

#### 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.

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Ecological information: The substance/mixture does not contain components considered 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.

Toxicological information: The substance/mixture does not contain components considered 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.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
styrene	100-42-5	Flam. Liq. 3; H226	>= 10 - < 20
	202-851-5	Acute Tox. 4; H332	
	601-026-00-0	Skin Irrit. 2; H315	
	01-2119457861-32	Eye Irrit. 2; H319	
		Repr. 2; H361d	
		STOT SE 3; H335	
		(Respiratory system)	
		STOT RE 1; H372	
		(hearing organs) Asp. Tox. 1; H304	
		Aquatic Chronic 3;	
		H412	
toluene	108-88-3	Flam. Liq. 2; H225	>= 0.25 - < 1
10.0.0.10	203-625-9	Skin Irrit. 2; H315	0.20
	601-021-00-3	Repr. 2; H361d	
	01-2119471310-51	STOT SE 3; H336	
		(Central nervous	
		system)	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
		Aquatic Chronic 3;	
		H412	
cobalt bis(2-ethylhexanoate)	136-52-7	Eye Irrit. 2; H319	>= 0.025 - <
	205-250-6	Skin Sens. 1A; H317	0.1
	01-2119524678-29	Repr. 1B; H360D	
		Aquatic Acute 1; H400	
		Aquatic Chronic 3;	
		H412	
cobalt(2+) propionate	1560-69-6	Acute Tox. 4; H302	>= 0.0025 - <
propionate	1.000 00 0	Acute Tox. 4; H332	0.025
	01-2119532653-41	Eye Irrit. 2; H319	0.020
		Skin Sens. 1A; H317	
		Repr. 1B; H360Fd	
		Aquatic Acute 1;	

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maleic anhydride  Substances with a workplace expo	108-31-6 203-571-6 607-096-00-9 01-2119472428-31	H400 Aquatic Chronic 2; H411  Acute toxicity estimate  Acute oral toxicity: 354.7 mg/kg  Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT RE 1; H372 (Respiratory system) EUH071  specific concentration limit Skin Sens. 1A; H317 >= 0.001 %	>= 0.001 - < 0.1
Talc	14807-96-6 238-877-9 01-2120140278-58		>= 30 - < 50

#### **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 skin irritation persists, call a physician.

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

In case of eye contact : Immediately flush eye(s) with plenty of water.

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.

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Never give anything by mouth to an unconscious person.

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

4.2 Most important symptoms and effects, both acute and delayed

Risks Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

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

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

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, 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

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.

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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
Talc	14807-96-6	OELV - 8 hrs (TWA) (Respira- ble dust)	0.8 mg/m3	IE OEL
		OELV - 8 hrs (TWA) (inhalable dust)	10 mg/m3	IE OEL
		TWA (Respirable dust)	0.1 mg/m3	2004/37/EC
	Further inform	nation: Carcinogens	or mutagens	
styrene	100-42-5	OELV - 15 min (STEL)	40 ppm 170 mg/m3	IE OEL
		OELV - 8 hrs (TWA)	20 ppm 85 mg/m3	IE OEL
Limestone 1317-65-3		OELV - 8 hrs (TWA) (Respira- ble dust)	4 mg/m3	IE OEL
		OELV - 8 hrs (TWA) (inhalable dust)	10 mg/m3	IE OEL
barium sulfate	7727-43-7	OELV - 8 hrs (TWA) (Respira- ble dust)	5 mg/m3	IE OEL
titanium dioxide	13463-67-7	OELV - 8 hrs (TWA) (Respira- ble dust)	4 mg/m3	IE OEL

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		OELV - 8 hrs	10 mg/m3	IE OEL
		(TWA) (inhalable		
		dust)		
toluene	108-88-3	TWA	50 ppm	2006/15/EC
			192 mg/m3	
	Further inform	nation: Indicative, Ide	entifies the possibility of signi	ficant uptake
	through the sl			a aptano
		STEL	100 ppm	2006/15/EC
			384 mg/m3	
	Further inform	nation: Indicative, Ide	entifies the possibility of signi	ficant uptake
	through the sl			a aptano
		OELV - 15 min	100 ppm	IE OEL
		(STEL)	384 mg/m3	
	Further inform	nation: Substances w	hich have the capacity to pe	netrate intact
	skin when the		th it, and be absorbed into the	
		OELV - 8 hrs	50 ppm	IE OEL
		(TWA)	192 mg/m3	
	Further information: Substances which have the capacity to penetrate in			
	skin when the	y come in contact w	th it, and be absorbed into the	ne body
cobalt bis(2-	136-52-7	OELV - 8 hrs	0.02 mg/m3	IE OEL
ethylhexanoate)		(TWA)	(Cobalt)	
	Further inform	nation: Chemical age	nts which following exposure	e may cause
			ct and lead to asthma, rhinitis	
	allergic alveol	itis		
cobalt(2+) propio-	1560-69-6	OELV - 8 hrs	0.02 mg/m3	IE OEL
nate		(TWA)	(Cobalt)	
	Further inform	nation: Chemical age	nts which following exposure	e may cause
			ct and lead to asthma, rhinitis	
	allergic alveol		,	
maleic anhydride	108-31-6	OELV - 8 hrs	0.01 ppm	IE OEL
•		(TWA) (Inhalable		
		fraction and va-		
		pour)		
	Further inform		nts which following exposure	e may cause
	sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic			
	allergic alveol			

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Talc	Workers	Inhalation	Acute systemic effects	2.16 mg/m3
	Workers	Inhalation	Acute local effects	3.6 mg/m3
	Consumers	Inhalation	Acute systemic effects	1.08 mg/m3
	Consumers	Inhalation	Acute local effects	1.8 mg/m3
	Consumers	Dermal	Long-term local effects	2.27 mg/cm2
	Workers	Dermal	Long-term local ef- fects	4.54 mg/cm2
	Consumers	Oral	Long-term systemic effects	160 mg/kg bw/day

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	Consumers	Oral	Acute systemic effects	160 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	43.2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	21.6 mg/kg bw/day
styrene	Workers	Inhalation	Acute systemic ef- fects	100 mg/m3
	Workers	Inhalation	Acute local effects	100 mg/m3
	Workers	Inhalation	Long-term systemic effects	85 mg/m3
	Consumers	Inhalation	Acute systemic effects	10 mg/m3
	Consumers	Inhalation	Acute local effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	1 mg/m3
	Workers	Inhalation	Long-term local effects	100 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
	Workers	Dermal	Long-term systemic effects	406 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	343 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.0077 mg/kg bw/day
barium sulfate	Consumers	Inhalation	Long-term systemic effects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Oral	Long-term systemic effects	13000 mg/kg bw/day
titanium dioxide	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m3
	Workers	Inhalation	Long-term local ef- fects	192 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	226 mg/m3
	Consumers	Inhalation	Acute local effects	226 mg/m3
cobalt bis(2- ethylhexanoate)	Workers	Inhalation	Long-term systemic effects	0.2351 mg/m3
	Consumers	Inhalation	Long-term local effects	0.037 mg/m3
	Consumers	Oral	Long-term systemic effects	0.0276 mg/kg bw/day
cobalt(2+) propionate	Workers	Inhalation	Long-term local ef- fects	0.1392 mg/m3
	Consumers	Inhalation	Long-term local ef-	0.0219 mg/m3

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			fects	
	Consumers	Oral	Long-term systemic	0.1038 mg/kg
			effects	bw/day

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Talc	Marine water	141.26 mg/l
	Fresh water	597.97 mg/l
	Marine sediment	3.13 mg/kg dry
		weight (d.w.)
	Fresh water sediment	31.33 mg/kg dry
		weight (d.w.)
	Intermittent use/release	597.97 mg/l
styrene	Soil	0.146 - 0.200
		mg/kg dry weight
		(d.w.)
	Marine water	0.014 - 0.040
		mg/l
	Fresh water	0.028 - 0.040
	NA 1 P	mg/l
	Marine sediment	0.307 - 0.418
		mg/kg dry weight
	Freeh weter endineert	(d.w.) 0.418 - 0.614
	Fresh water sediment	
		mg/kg dry weight (d.w.)
	Sewage treatment plant	5 mg/l
barium sulfate	Soil	207.7 mg/kg dry
bandin sunate	3011	weight (d.w.)
	Fresh water	0.115 mg/l
	Fresh water sediment	600.4 mg/kg dry
	1 Toon water coamient	weight (d.w.)
	Sewage treatment plant	62.2 mg/l
titanium dioxide	Soil	100 mg/kg dry
		weight (d.w.)
	Marine water	0.0184 mg/l
	Fresh water	0.184 mg/l
	Marine sediment	100 mg/kg dry
		weight (d.w.)
	Fresh water sediment	1000 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.193 mg/l
toluene	Soil	2.89 mg/kg dry
		weight (d.w.)
	Marine water	0.68 mg/l
	Fresh water	0.68 mg/l
	Marine sediment	16.39 mg/kg dry
		weight (d.w.)
	Fresh water sediment	16.39 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	13.61 mg/l

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	Intermittent use/release	0.68 mg/l
cobalt bis(2-ethylhexanoate)	Soil	10.9 mg/kg dry weight (d.w.)
	Marine water	0.00236 mg/l
	Fresh water	0.0006 mg/l
	Marine sediment	9.5 mg/kg dry weight (d.w.)
	Fresh water sediment	9.5 mg/kg dry weight (d.w.)
	Sewage treatment plant	0.37 mg/l
cobalt(2+) propionate	Fresh water	0.000620 mg/l
	Marine water	0.00236 mg/l
	Sewage treatment plant	0.370 mg/l
	Fresh water sediment	53.8 mg/kg dry weight (d.w.)
	Marine sediment	69.8 mg/kg dry weight (d.w.)
	Soil	10.9 mg/kg dry weight (d.w.)

#### 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

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

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

butyl-rubber (> 0,6 mm; < 240 min); DIN EN374 | 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 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 concentration 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 : Combined particulates and organic vapour type (A-P)

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

9.1 Information on basic physical and chemical properties

Physical state : viscous liquid
Colour : in accordance with the product description

Odour : solvent-like
Odour Threshold : No data available

Melting point/freezing point : -31.0 °C (calculation method (principal components, lowest

value))

Boiling point/boiling range : 145 °C (calculation method (principal components, lowest

value))

Flammability : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper

flammability limit

8 %(V) (calculation method (principal components, highest

value))

Lower explosion limit / Lower

flammability limit

1.1 %(V) (calculation method (principal components, highest

value))

Flash point : 31 °C (calculation method (principal components, lowest val-

ue))

Ignition temperature : 490 °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.

pH : Not applicable

Viscosity

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Solubility(ies)

Water solubility : immiscible, partly soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: log Pow: 2.95 (calculation method (principal components,

highest value))

Relative density : 1.60 (calculation method (principal components, highest val-

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ue))

Density : 1.687 - 1.801 g/cm3

Relative vapour density : 3.6 (calculation method (principal components, lowest value))

(Air = 1.0)

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Sustains combustion

Evaporation rate : No data available

VOC : (Directive 2004/42/EC)

250 g/l

#### **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).

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

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

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

**Components:** 

styrene:

Acute oral toxicity : LD50 Oral (Rat): >= 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): >= 24 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,650 mg/kg

toluene:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 28 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

cobalt(2+) propionate:

Acute oral toxicity : LD50 Oral (Rat): 354.7 mg/kg

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

short term inhalation.

maleic anhydride:

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

single ingestion.

Skin corrosion/irritation

Causes skin irritation.

**Product:** 

Remarks : May cause skin irritation and/or dermatitis.

according to Regulation (EC) No. 1907/2006



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**Components:** 

styrene:

Result : irritating

toluene:

Result : irritating

maleic anhydride:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

**Components:** 

styrene:

Result : Eye irritation

cobalt bis(2-ethylhexanoate):

Result : Eye irritation

cobalt(2+) propionate:

Result : Eye irritation

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:** 

cobalt bis(2-ethylhexanoate):

Result : The product is a skin sensitiser, sub-category 1A.

cobalt(2+) propionate:

Result : The product is a skin sensitiser, sub-category 1A.

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maleic anhydride:

Result : Probability of respiratory sensitisation in humans based on

animaltesting

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

**Components:** 

styrene:

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and

fertility, and/or on development, based on animal experiments.

toluene:

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

cobalt(2+) propionate:

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on sexual function and fertil-

ity, based on animal experiments.

Some evidence of adverse effects on development, based on

animalexperiments.

STOT - single exposure

Not classified based on available information.

Components:

styrene:

Assessment : May cause respiratory irritation.

toluene:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Components:** 

styrene:

Assessment : Causes damage to organs through prolonged or repeated

exposure.

according to Regulation (EC) No. 1907/2006

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toluene:

Assessment May cause damage to organs through prolonged or repeated

exposure.

maleic anhydride:

Assessment May cause damage to organs through prolonged or repeated

exposure.

**Aspiration toxicity** 

Not classified based on available information.

**Components:** 

styrene:

May be fatal if swallowed and enters airways.

toluene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

**Endocrine disrupting properties** 

**Product:** 

Assessment : 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.

**Further information** 

**Product:** 

Remarks Solvents may degrease the skin.

**SECTION 12: Ecological information** 

12.1 Toxicity

**Components:** 

styrene:

Toxicity to fish : LC50 (Fish): >= 10 - 12 mg/l

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): >= 4.7 mg/l

according to Regulation (EC) No. 1907/2006

# **HELIOS**

#### **MOBIHEL SOFT UNI PUTTY**

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**Ecotoxicology Assessment** 

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

toluene:

**Ecotoxicology Assessment** 

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

cobalt bis(2-ethylhexanoate):

**Ecotoxicology Assessment** 

Acute aquatic toxicity Very toxic to aquatic life.

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

cobalt(2+) propionate:

Toxicity to fish LC50 (Fish): 1.5 mg/l

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)): 197

μg/l

EC50 (Champia parvula (marine algae)): 24,1 μg/l

EC10 (Scenedesmus capricornutum (fresh water algae)): 66,9

μg/l

EC10 (Champia parvula (marine algae)): 1,23 μg/l

Toxicity to microorganisms EC50: 120 mg/l

EC10: 3.73 mg/l

Toxicity to fish (Chronic tox-

icity)

NOEC: 351,4 µg/l

Species: Fish

NOEC: 31.802 mg/l Species: Marine species

**Ecotoxicology Assessment** 

Acute aquatic toxicity Very toxic to aquatic life.

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

maleic anhydride:

Toxicity to fish LC50: 75 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

NOEC: 10 mg/l aquatic invertebrates (Chron-Exposure time: 21 d

according to Regulation (EC) No. 1907/2006

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ic toxicity) Species: Daphnia magna (Water flea)

#### 12.2 Persistence and degradability

**Components:** 

styrene:

Biodegradability : Test Type: aerobic

Readily biodegradable.

Test Type: anaerobic

According to the results of tests of biodegradability this prod-

uct is not readily biodegradable.

Physico-chemical removabil- :

itν

The product evaporates readily.

Readily biodegradable.

Stability in water : Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

maleic anhydride:

Biodegradability : Result: Biodegradable

Biodegradation: 90 % Exposure time: 25 d

Method: OECD Test Guideline 301B

Stability in water : Hydrolyses readily.

Photodegradation

12.3 Bioaccumulative potential

**Components:** 

styrene:

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2.95

toluene:

Partition coefficient: n-

octanol/water

log Pow: 2.65

maleic anhydride:

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: -2.61 (20 °C)

according to Regulation (EC) No. 1907/2006

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#### 12.4 Mobility in soil

#### **Components:**

styrene:

Mobility Medium: Air

Content: 98.6 %

Medium: Water Content: 1.21 %

Medium: Sediment Content: 0.09 %

: Medium: Soil Content: 0.09 %

maleic anhydride:

Mobility Medium: Water

Content: 100 %

: Medium: Soil Content: 0 %

Distribution among environmental compartments

: Koc: 42, log Koc: 1.63

#### 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 Endocrine disrupting properties

#### Product:

Assessment : 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.

#### 12.7 Other adverse effects

**Product:** 

Additional ecological infor- : No data available

mation

according to Regulation (EC) No. 1907/2006

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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

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.

Waste Code : 08 00 00, WASTES FROM THE MANUFACTURE,

FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS

(PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01 00, wastes from MFSU and removal of paint and var-

nish

08 01 11, waste paint and varnish containing organic solvents

or other hazardoussubstances

15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING

CLOTHS, FILTER MATERIALS AND PROTECTIVE

**CLOTHING NOT OTHERWISE SPECIFIED** 

15 01 00, packaging (including separately collected municipal

packaging waste)

15 01 10, packaging containing residues of or contaminated

by hazardoussubstances

HP3, Flammable

HP4, Irritant - skin irritation and eye damage

HP5, Specific Target Organ Toxicity (STOT)/Aspiration Toxici-

ty

HP10, Toxic for reproduction

HP13, Sensitising

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN : UN 3269
ADR : UN 3269
RID : UN 3269
IMDG : UN 3269
IATA : UN 3269

14.2 UN proper shipping name

ADN : POLYESTER RESIN KIT
ADR : POLYESTER RESIN KIT

according to Regulation (EC) No. 1907/2006



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RID : POLYESTER RESIN KIT IMDG : POLYESTER RESIN KIT

IATA : Polyester resin kit

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 : F3
Labels : 3

**ADR** 

Packing group : III
Classification Code : F3
Labels : 3
Tunnel restriction code : (E)

**RID** 

Packing group : III
Classification Code : F3
Hazard Identification Number : 30
Labels : 3

**IMDG** 

Packing group : III
Labels : 3
EmS Code : F-E, S-D

E1110 00dc . 1

IATA (Cargo)

Packing instruction (cargo : 370

aircraft)

Packing instruction (LQ) : Y370
Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen- : 370

ger aircraft)

Packing instruction (LQ) : Y370
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

according to Regulation (EC) No. 1907/2006

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**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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

toluene (Number on list 48)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

that de- : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

. Hot applicat

Regulation (EU) 2019/1021 on persistent organic pollu-

: Not applicable

: Not applicable

tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

Not applicable

of dangerous chemicals

REACH - List of substances subject to authorisation :

(Annex XIV)

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

FLAMMABLE LIQUIDS

dangerous substances.

P5c

according to Regulation (EC) No. 1907/2006

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Volatile organic compounds : Directive 2004/42/EC

Volatile organic compounds (VOC) content: 250 g/l

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 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 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways. H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

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.
H360D : May damage the unborn child.

H360Fd : May damage fertility. Suspected of damaging the unborn

child.

H361d : Suspected of damaging the unborn child.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H372 : Causes damage to organs through prolonged or repeated

exposure if inhaled.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

EUH071 : Corrosive to the respiratory tract.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation Flam. Liq. : Flammable liquids

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Repr. : Reproductive toxicity
Resp. Sens. : Respiratory sensitisation

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

2006/15/EC : Europe. Indicative occupational exposure limit values

IE OEL : Ireland. List of Chemical Agents and Occupational Exposure

Limit Values - Schedule 1

2004/37/EC / TWA : Long term exposure limit 2006/15/EC / TWA : Limit Value - eight hours 2006/15/EC / STEL : Short term exposure limit

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min : Occupational exposure limit value (15-minute reference period)

(STEL) od)

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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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#### **Further information**

#### Classification of the mixture: Classification procedure: Flam. Liq. 3 H226 Based on product data or assessment Skin Irrit. 2 H315 Calculation method Eye Irrit. 2 Calculation method H319 Skin Sens. 1 H317 Calculation method Repr. 2 H361d Calculation method STOT RE 1 H372 Calculation method

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