# MOBIHEL SOFT UNI PUTTY

| Version | Revision Date: | SDS Number: | Date of last issue: - |
|---|---|---|---|
| 1.0 | 19.07.2023 | MAT0GA05_065 IE/EN | Date of first issue: 19.07.2023 |

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

### 1.1 Product identifier

Trade name : MOBIHEL SOFT UNI PUTTY

Product code : 40090201

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 Substance/Mixture : PC9a Coatings and paints, thinners, paint removers

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

### 1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.
Količevo 65
1230 Domžale
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

### 1.4 Emergency telephone number

- 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. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Reproductive toxicity, Category 2 | H361d: Suspected of damaging the unborn child. |
| Specific target organ toxicity - repeated exposure, Category 1 | 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 repeated 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 protection/ 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.

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

| | | | |
|---|---|---|---|
| | | H412 | |
| cobalt(2+) propionate | 1560-69-6<br><br>01-2119532653-41 | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Eye Irrit. 2; H319<br>Skin Sens. 1A; H317<br>Repr. 1B; H360Fd<br>Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411<br>---<br>Acute toxicity esti-mate<br><br>Acute oral toxicity: 354.7 mg/kg | >= 0.0025 - < 0.025 |
| maleic anhydride | 108-31-6<br>203-571-6<br>607-096-00-9<br>01-2119472428-31 | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Resp. Sens. 1; H334<br>STOT RE 1; H372 (Respiratory system)<br>EUH071<br><br>---<br>specific concentration limit<br>Skin Sens. 1A; H317<br>>= 0.001 % | >= 0.001 - < 0.1 |
| Substances with a workplace exposure limit : | | | |
| Talc | 14807-96-6<br>238-877-9<br>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.
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.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent 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 application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against : Do not spray on a naked flame or any incandescent material.

| | | |
|---|---|---|
| fire and explosion | | 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 storage 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.<br><br>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 of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| Talc | 14807-96-6 | OELV - 8 hrs (TWA) (Respirable 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 information: Carcinogens or mutagens | | | |
| styrene | 100-42-5 | OELV - 15 min (STEL) | 40 ppm<br>170 mg/m3 | IE OEL |
| | | OELV - 8 hrs (TWA) | 20 ppm<br>85 mg/m3 | IE OEL |
| Limestone | 1317-65-3 | OELV - 8 hrs (TWA) (Respirable dust) | 4 mg/m3 | IE OEL |
| | | OELV - 8 hrs (TWA) (inhalable | 10 mg/m3 | IE OEL |

| | | | | |
|---|---|---|---|---|
| | | dust) | | |
| barium sulfate | 7727-43-7 | OELV - 8 hrs (TWA) (Respirable dust) | 5 mg/m3 | IE OEL |
| titanium dioxide | 13463-67-7 | OELV - 8 hrs (TWA) (Respirable dust) | 4 mg/m3 | IE OEL |
| | | OELV - 8 hrs (TWA) (inhalable dust) | 10 mg/m3 | IE OEL |
| toluene | 108-88-3 | TWA | 50 ppm<br>192 mg/m3 | 2006/15/EC |
| | Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | |
| | | STEL | 100 ppm<br>384 mg/m3 | 2006/15/EC |
| | Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | |
| | | OELV - 15 min (STEL) | 100 ppm<br>384 mg/m3 | IE OEL |
| | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body | | | |
| | | OELV - 8 hrs (TWA) | 50 ppm<br>192 mg/m3 | IE OEL |
| | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body | | | |
| cobalt bis(2-ethylhexanoate) | 136-52-7 | OELV - 8 hrs (TWA) | 0.02 mg/m3<br>(Cobalt) | IE OEL |
| | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis | | | |
| cobalt(2+) propionate | 1560-69-6 | OELV - 8 hrs (TWA) | 0.02 mg/m3<br>(Cobalt) | IE OEL |
| | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis | | | |
| maleic anhydride | 108-31-6 | OELV - 8 hrs (TWA) (Inhalable fraction and vapour) | 0.01 ppm | IE OEL |
| | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis | | | |

**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 effects | 4.54 mg/cm2 |
| | Consumers | Oral | Long-term systemic effects | 160 mg/kg bw/day |
| | 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 effects | 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 effects | 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 effects | 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 effects | 192 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 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 effects | 0.1392 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 0.0219 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 0.1038 mg/kg 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 mg/l |
| | Marine sediment | 0.307 - 0.418 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.418 - 0.614 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 5 mg/l |
| barium sulfate | Soil | 207.7 mg/kg dry weight (d.w.) |
| | Fresh water | 0.115 mg/l |
| | Fresh water sediment | 600.4 mg/kg dry 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 |
| | 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 ventilation 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) |

## 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 value)) |
| 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 conditions. |
| 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 value))

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).

## 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.

**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.

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

**toluene:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility,and/or on development, based on animal experiments.

**cobalt(2+) propionate:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility,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.

**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 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.

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

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Chronic aquatic toxicity | : | Harmful to aquatic life with long lasting effects. |

**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<br><br>EC50 (Champia parvula (marine algae)): 24,1 µg/l<br><br>EC10 (Scenedesmus capricornutum (fresh water algae)): 66,9 µg/l<br><br>EC10 (Champia parvula (marine algae)): 1,23 µg/l |
| Toxicity to microorganisms | : | EC50 : 120 mg/l<br><br>EC10 : 3.73 mg/l |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 351,4 µg/l<br>Species: Fish<br><br>NOEC: 31.802 mg/l<br>Species: Marine species |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Very toxic to aquatic life. |
| Chronic aquatic toxicity | : | Toxic to aquatic life with long lasting effects. |

**maleic anhydride:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 : 75 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 10 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea) |

### 12.2 Persistence and degradability

**Components:**

**styrene:**

| | | |
|---|---|---|
| Biodegradability | : | Test Type: aerobic<br>Readily biodegradable.<br><br>Test Type: anaerobic<br>According to the results of tests of biodegradability this product is not readily biodegradable. |
| Physico-chemical removability | : | The product evaporates readily.<br>Readily biodegradable. |
| Stability in water | : | Hydrolyses slowly. |
| Photodegradation | : | Decomposes rapidly in contact with light. |

**maleic anhydride:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Biodegradable<br>Biodegradation: 90 %<br>Exposure time: 25 d<br>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)

### 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 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. |

### 12.7 Other adverse effects

**Product:**

| | | |
|---|---|---|
| Additional ecological information | : | No data available |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>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<br>08 01 00, wastes from MFSU and removal of paint and varnish<br>08 01 11, waste paint and varnish containing organic solvents or other hazardoussubstances<br>15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED<br>15 01 00, packaging (including separately collected municipal packaging waste)<br>15 01 10, packaging containing residues of or contaminated by hazardoussubstances<br>HP3, Flammable<br>HP4, Irritant - skin irritation and eye damage<br>HP5, Specific Target Organ Toxicity (STOT)/Aspiration Toxicity<br>HP10, Toxic for reproduction<br>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 |
| **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 |

**IATA (Cargo)**

| | | |
|---|---|---|
| Packing instruction (cargo aircraft) | : | 370 |
| Packing instruction (LQ) | : | Y370 |
| Packing group | : | III |
| Labels | : | Flammable Liquids |

**IATA (Passenger)**

| | | |
|---|---|---|
| Packing instruction (passenger aircraft) | : | 370 |
| Packing instruction (LQ) | : | Y370 |
| 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 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<br><br>If you intend to use this product as tattoo ink, please contact your vendor.<br><br>toluene (Number on list 48) |
| REACH - Candidate List of Substances of Very High | : | Not applicable |

Concern for Authorisation (Article 59).

| | | |
|---|---|---|
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) | : | Not applicable |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals | : | Not applicable |
| 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 dangerous substances. | P5c | FLAMMABLE LIQUIDS |

| | | |
|---|---|---|
| Volatile organic compounds | : | Directive 2004/42/EC<br>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 difficulties 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 |
| 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 (STEL) | : | Occupational exposure limit value (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 as-

sociated 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

**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 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 2 | H361d | Calculation method |
| STOT RE 1 | H372 | Calculation method |

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