

\* BÜFA®-Resin VE 6520 RTM

Date revised: 01.10.2021

# 7006520

Version: 8 / DK

Master No. M-401

Print date: 02.08.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Trade name**

BÜFA®-Resin VE 6520 RTM

**UFI**

UFI: 7UY7-J0CK-300Q-SW8W

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Purpose of use: Raw substance formulas for manufacturing shaped parts from unsaturated polyester / vinyl ester resins.

**Uses advised against**

SU21 Consumer uses: Private households (= general public = consumers)

**1.3. Details of the supplier of the safety data sheet****Address**

BÜFA Composite Systems  
GmbH & Co. KG Hohe Looge 2-8  
Hohe Looge 2-8  
26180 Rastede  
Telephone no. +49 4402 975-0  
Fax no. +49 4402 975-400  
Information provided Department product safety / +49 4402 975-415  
by / telephone  
E-Mail produktsicherheit-compositesystems@buefa.de

**1.4. Emergency telephone number**

Giftzentrale Goettingen: +49 551 19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**

|                   |       |  |
|-------------------|-------|--|
| Flam. Liq. 3      | H226  |  |
| Acute Tox. 4      | H332  |  |
| Skin Irrit. 2     | H315  |  |
| Eye Irrit. 2      | H319  |  |
| Skin Sens. 1      | H317  |  |
| Repr. 2           | H361d |  |
| STOT SE 3         | H335  |  |
| STOT RE 1         | H372  | Organs: Ear; Route of exposure: inhalative |
| Aquatic Chronic 3 | H412  |  |

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
For explanation of abbreviations see section 16.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008****Hazard pictograms**

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**Signal word**

Danger

**Hazard statements**

|       |   |
|-------|---|
| H226  | Flammable liquid and vapour.  |
| H332  | Harmful if inhaled.   |
| H315  | Causes skin irritation.   |
| H319  | Causes serious eye irritation.  |
| H317  | May cause an allergic skin reaction.  |
| H361d | Suspected of damaging the unborn child.   |
| H335  | May cause respiratory irritation.   |
| H372  | Causes damage to organs through prolonged or repeated exposure.<br>Ear; Route of exposure: inhalative |
| H412  | Harmful to aquatic life with long lasting effects.  |

**Precautionary statements**

|                |  |
|----------------|--|
| P210,9         | Keep away from sparks, open flames and other ignition sources. No smoking.   |
| P260,8         | Do not breathe vapours/spray.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/ attention.  |

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

|          |   |
|----------|---|
| contains | styrene;methyl methacrylate;Fatty acids, C14-18 and C16-18-unsaturated, maleated;cobalt bis(2-ethylhexanoate) |
|----------|---|

**2.3. Other hazards**

The product does not contain PBT/vPvB-substances.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients****styrene**

|                   |                       |
|-------------------|-----------------------|
| CAS No.           | 100-42-5              |
| EINECS no.        | 202-851-5             |
| Registration no.  | 01-2119457861-32-XXXX |
| Concentration     | >= 30 < 50 %          |
| Flam. Liq. 3      | H226                  |
| Skin Irrit. 2     | H315                  |
| Acute Tox. 4      | H332                  |
| Eye Irrit. 2      | H319                  |
| STOT SE 3         | H335                  |
| STOT RE 1         | H372                  |
| Asp. Tox. 1       | H304                  |
| Repr. 2           | H361d                 |
| Aquatic Chronic 3 | H412                  |

Organs: Ear; Route of exposure: inhalative

**methyl methacrylate**

|            |           |
|------------|-----------|
| CAS No.    | 80-62-6   |
| EINECS no. | 201-297-1 |

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| #   | Version: 8 / DK       | Master No. M-401         |            | Print date: 02.08.2022 |       |
| Registration no.  | 01-2119452498-28-XXXX |                          |            |                        |       |
| Concentration   | >=                    | 1                        | <          | 10                     | %     |
| Flam. Liq. 2  | H225                  |                          |            |                        |       |
| STOT SE 3   | H335                  |                          |            |                        |       |
| Skin Irrit. 2   | H315                  |                          |            |                        |       |
| Skin Sens. 1  | H317                  |                          |            |                        |       |
| <b>Fatty acids, C14-18 and C16-18-unsaturated, maleated</b> |                       |                          |            |                        |       |
| CAS No.   | 85711-46-2            |                          |            |                        |       |
| EINECS no.  | 288-306-2             |                          |            |                        |       |
| Registration no.  | 01-2119976378-19-0000 |                          |            |                        |       |
| Concentration   | >=                    | 0,1                      | <          | 1                      | %     |
| Skin Sens. 1  | H317                  |                          |            |                        |       |
| Skin Irrit. 2   | H315                  |                          |            |                        |       |
| <b>cobalt bis(2-ethylhexanoate)</b>                         |                       |                          |            |                        |       |
| CAS No.   | 136-52-7              |                          |            |                        |       |
| EINECS no.  | 205-250-6             |                          |            |                        |       |
| Registration no.  | 01-2119524678-29      |                          |            |                        |       |
| Concentration   | >=                    | 0,1                      | <          | 0,3                    | %     |
| Repr. 1B  | H360F                 |                          |            |                        |       |
| Skin Sens. 1  | H317                  |                          |            |                        |       |
| Eye Irrit. 2  | H319                  |                          |            |                        |       |
| Aquatic Acute 1   | H400                  |                          |            |                        |       |
| Aquatic Chronic 3   | H412                  |                          |            |                        |       |
|   | Repr. 1B              | H360F                    | >          | 0,30                   | %     |
| <b>1,4-dihydroxybenzene</b>                                 |                       |                          |            |                        |       |
| CAS No.   | 123-31-9              |                          |            |                        |       |
| EINECS no.  | 204-617-8             |                          |            |                        |       |
| Registration no.  | 01-2119524016-51-XXXX |                          |            |                        |       |
| Concentration   | >=                    | 0,01                     | <          | 0,1                    | %     |
| Aquatic Acute 1   | H400                  |                          |            |                        |       |
| Skin Sens. 1  | H317                  |                          |            |                        |       |
| Eye Dam. 1  | H318                  |                          |            |                        |       |
| Carc. 2   | H351                  |                          |            |                        |       |
| Acute Tox. 4  | H302                  |                          |            |                        |       |
| Muta. 2   | H341                  |                          |            |                        |       |
|   | Aquatic Acute 1       | M = 10                   |            |                        |       |
| <b>Further ingredients</b>                                  |                       |                          |            |                        |       |
| <b>silicon dioxide</b>                                      |                       |                          |            |                        |       |
| CAS No.   | 7631-86-9             |                          | EINECS no. | 231-545-4              |       |
| Registration no.  | 01-2119379499-16-0000 |                          |            |                        |       |
| Concentration   | >=                    | 1                        | <          | 10                     | % [3] |

Complete text of hazard statements in chapter 16

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

### **4.1. Description of first aid measures**

#### **General information**

Adhere to personal protective measures when giving first aid. Remove soiled or soaked clothing immediately, do not allow to dry.

#### **After inhalation**

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Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. In the event of symptoms take medical treatment.

**After skin contact**

Wash off immediately with soap and water.

**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical advice immediately. Remove contact lenses

**After ingestion**

Rinse mouth thoroughly with water. Summon a doctor immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If individual is drowsy or unconscious place in recovery position (on left side, with head down).

**4.2. Most important symptoms and effects, both acute and delayed**

The following symptoms may occur: Headache, Dizziness, Nausea

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, Dry powder, Carbon dioxide

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Carbon monoxide (CO); Nitrogen oxides (NOx); dense black smoke

**5.3. Advice for firefighters**

Use self-contained breathing apparatus.

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Use personal protective clothing. Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

**6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Observe the usual precautions for handling chemicals.

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Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

No information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### methyl methacrylate

|   |     |                   |    |        |
|---|-----|-------------------|----|--------|
| List  | GV  |                   |    |        |
| Value   | 102 | mg/m <sup>3</sup> | 25 | ppm(V) |
| Maximum limit value; Skin resorption / sensibilisation: H; Pregnancy group; Status; Remarks: EH |     |                   |    |        |

##### methyl methacrylate

|                           |       |  |     |        |
|---------------------------|-------|--|-----|--------|
| List                      | IOELV |  |     |        |
| Type                      | IOELV |  |     |        |
| Value                     |       |  | 50  | ppm(V) |
| Short term exposure limit |       |  | 100 | ppm(V) |

##### styrene

|  |     |                   |    |        |
|--|-----|-------------------|----|--------|
| List   | GV  |                   |    |        |
| Value  | 105 | mg/m <sup>3</sup> | 25 | ppm(V) |
| Maximum limit value; Skin resorption / sensibilisation: H; Pregnancy group; Status; Remarks: LHK |     |                   |    |        |

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### methyl methacrylate

|                     |                     |                   |            |  |
|---------------------|---------------------|-------------------|------------|--|
| Reference substance | methyl methacrylate |                   |            |  |
| DNEL                |                     |                   |            |  |
| Conditions          | Worker              | Long term         | inhalative |  |
| Concentration       | 210                 | mg/m <sup>3</sup> |            |  |

|               |        |                   |        |  |
|---------------|--------|-------------------|--------|--|
| DNEL          |        |                   |        |  |
| Conditions    | Worker | Long term         | dermal |  |
| Concentration | 74,3   | mg/m <sup>3</sup> |        |  |

##### styrene

|               |        |                   |            |                  |
|---------------|--------|-------------------|------------|------------------|
| DNEL          |        |                   |            |                  |
| Conditions    | Worker | Acute             | inhalative | Systemic effects |
| Concentration | 289    | mg/m <sup>3</sup> |            |                  |

|               |        |                   |            |                  |
|---------------|--------|-------------------|------------|------------------|
| DNEL          |        |                   |            |                  |
| Conditions    | Worker | Long term         | inhalative | Systemic effects |
| Concentration | 85     | mg/m <sup>3</sup> |            |                  |

|               |        |                   |            |               |
|---------------|--------|-------------------|------------|---------------|
| DNEL          |        |                   |            |               |
| Conditions    | Worker | Acute             | inhalative | Local effects |
| Concentration | 306    | mg/m <sup>3</sup> |            |               |

|               |        |           |        |                  |
|---------------|--------|-----------|--------|------------------|
| DNEL          |        |           |        |                  |
| Conditions    | Worker | Long term | dermal | Systemic effects |
| Concentration | 406    | mg/kg/d   |        |                  |

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**cobalt bis(2-ethylhexanoate)**

DNEL

|               |        |           |                   |               |
|---------------|--------|-----------|-------------------|---------------|
| Conditions    | Worker | Long term | inhalative        | Local effects |
| Concentration | 235,1  |           | µg/m <sup>3</sup> |               |

**Predicted No Effect Concentration (PNEC)****cobalt bis(2-ethylhexanoate)**

Type of value

PNEC

Type Sewage treatment plant (STP)

Concentration 1,08 mg/l

Type

freshwater

Concentration 0,00149 mg/l

Type

marine water

Concentration 0,0069 mg/l

Type

freshwater sediment

Concentration 27,8 mg/kg

Type

marine sediment

Concentration 17,8 mg/kg

Type

Soil

Concentration 23,1 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Use only in well ventilated areas.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**General protective and hygiene measures**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A; Self-contained breathing apparatus. Respiratory protection must comply with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149.

**Hand protection**

Chemical resistant gloves

Appropriate Material Butyl rubber

Material thickness 0,7 mm

Breakthrough time = 30 min

Hand protection must comply with EN 374.

**Eye protection**

Tightly fitting safety glasses; Eye protection must comply with EN 166.

**Body protection**

Clothing as usual in the chemical industry. Wear protective clothing according to EN 13034: 2005 + A1: 2009.

**SECTION 9: Physical and chemical properties**

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### 9.1. Information on basic physical and chemical properties

|  |                        |  |                   |
|--|------------------------|--|-------------------|
| <b>Form</b>  | liquid                 |  |                   |
| <b>Colour</b>  | light blue             |  |                   |
| <b>Odour</b>   | of styrene             |  |                   |
| <b>Odour threshold</b>                               |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>pH value</b>                                      |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Melting point</b>                                 |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Freezing point</b>                                |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Boiling point</b>                                 |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Flash point</b>                                   |                        |  |                   |
| Value  | 33,5                   |  | °C                |
| Method   | ISO 3679-B             |  |                   |
| <b>Evaporation rate</b>                              |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Efflux time</b>                                   |                        |  |                   |
| Value  | 33                     |  | s                 |
| Temperature  | 23                     |  | °C                |
| Method   | DIN EN ISO 2431 - 6 mm |  |                   |
| <b>Flammability</b>                                  |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Explosion limits</b>                              |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Vapour pressure</b>                               |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Vapour density</b>                                |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Density</b>                                       |                        |  |                   |
| Value  | 1,31                   |  | g/cm <sup>3</sup> |
| Temperature  | 20                     |  | °C                |
| <b>Solubility in water</b>                           |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Solubility in other solvents</b>                  |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Octanol/water partition coefficient (log Pow)</b> |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Ignition temperature</b>                          |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Auto-ignition temperature</b>                     |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Thermal decomposition</b>                         |                        |  |                   |
| Remarks  | No data available      |  |                   |
| <b>Explosive properties</b>                          |                        |  |                   |

|                           |                 |                          |
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|                             |                   |
|-----------------------------|-------------------|
| evaluation                  | no data           |
| <b>Oxidising properties</b> |                   |
| Remarks                     | No data available |

**9.2. Other information**  
No information available.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

### **10.2. Chemical stability**

The product is stable.

### **10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

### **10.4. Conditions to avoid**

Protect from heat and direct sunlight.

### **10.5. Incompatible materials**

Reactions with peroxides and other radical components.

### **10.6. Hazardous decomposition products**

No hazardous decomposition products known.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

Based on available data, the classification criteria are not met.

#### **Acute oral toxicity (Components)**

##### **methyl methacrylate**

|         |     |          |       |
|---------|-----|----------|-------|
| Species | rat |          |       |
| LD50    | >   | 5000     | mg/kg |
| Method  |     | OECD 401 |       |

##### **styrene**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    | >   | 5000 | mg/kg |

#### **Acute dermal toxicity**

Based on available data, the classification criteria are not met.

#### **Acute dermal toxicity (Components)**

##### **methyl methacrylate**

|         |        |      |       |
|---------|--------|------|-------|
| Species | rabbit |      |       |
| LD50    | >      | 5000 | mg/kg |

##### **styrene**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    | >   | 5000 | mg/kg |

#### **Acute inhalational toxicity**

|                     |  |  |      |
|---------------------|--|--|------|
| ATE                 |  | 34,75  | mg/l |
| Administration/Form |  | Vapors   |      |
| Method              |  | calculated value (Regulation (EC) No. 1272/2008) |      |
| ATE                 |  | 4,42   | mg/l |
| Administration/Form |  | Dust/Mist  |      |
| Method              |  | calculated value (Regulation (EC) No. 1272/2008) |      |



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The classification criteria are met.

**Acute inhalative toxicity (Components)****methyl methacrylate**

|         |     |      |      |
|---------|-----|------|------|
| Species | rat |      |      |
| LC50    |     | 29,8 | mg/l |

**styrene**

|                      |        |      |      |
|----------------------|--------|------|------|
| Species              | rat    |      |      |
| LC50                 |        | 11,8 | mg/l |
| Duration of exposure |        | 4    | h    |
| Administration/Form  | Vapors |      |      |

**Skin corrosion/irritation**

|            |          |
|------------|----------|
| evaluation | irritant |
|------------|----------|

The classification criteria are met.

**Serious eye damage/irritation**

|            |          |
|------------|----------|
| evaluation | irritant |
|------------|----------|

The classification criteria are met.

**Sensitization**

|            |  |
|------------|--|
| evaluation | May cause sensitization by skin contact. |
|------------|--|

The classification criteria are met.

**Sensitization (Components)****styrene**

|            |                 |
|------------|-----------------|
| evaluation | non-sensitizing |
|------------|-----------------|

**Mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

|            |   |
|------------|---|
| evaluation | Suspected of damaging the unborn child. |
|------------|---|

The classification criteria are met.

**Specific Target Organ Toxicity (STOT)****Single exposure**

The classification criteria are met.

|            |                                   |
|------------|-----------------------------------|
| evaluation | May cause respiratory irritation. |
|------------|-----------------------------------|

**Repeated exposure**

The classification criteria are met.

|            |  |
|------------|--|
| evaluation | Causes damage to organs through prolonged or repeated exposure |
|------------|--|

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Other information**

Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiners, vomiting.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity****methyl methacrylate**

|                      |  |   |      |
|----------------------|--|---|------|
| Species              | rainbow trout ( <i>Oncorhynchus mykiss</i> ) |   |      |
| LC50                 | > 79   |   | mg/l |
| Duration of exposure | 96   | h |      |
| Method               | OECD 203                                     |   |      |

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| Species   | zebra fish (Brachydanio rerio)                     |                          |                        |
| NOEC  | 9,4  |                          | mg/l                   |
| Method  | OECD 210   |                          |                        |
| <b>styrene</b>  |  |                          |                        |
| LC/EC/IC50  | > 1,0  | to 10                    | mg/l                   |
| <b>Daphnia toxicity</b>   |  |                          |                        |
| <b>methyl methacrylate</b>  |  |                          |                        |
| Species   | Daphnia magna                                      |                          |                        |
| EC50  | 69   |                          | mg/l                   |
| Duration of exposure  | 48   | h                        |                        |
| Method  | OECD 202   |                          |                        |
| Species   | Daphnia magna                                      |                          |                        |
| NOEC  | 37   |                          | mg/l                   |
| Duration of exposure  | 21   | Days                     |                        |
| Method  | OECD 202 Part 2                                    |                          |                        |
| Durchfluss  |  |                          |                        |
| <b>styrene</b>  |  |                          |                        |
| Species   | Daphnia magna                                      |                          |                        |
| LC/EC/IC50  | > 1,0  | to 10                    | mg/l                   |
| <b>Algae toxicity</b>   |  |                          |                        |
| <b>methyl methacrylate</b>  |  |                          |                        |
| Species   | Selenastrum capricornutum                          |                          |                        |
| EC50  | > 110  |                          | mg/l                   |
| Duration of exposure  | 72   | h                        |                        |
| Method  | OECD 201   |                          |                        |
| <b>styrene</b>  |  |                          |                        |
| LC/EC/IC50  | > 1,0  | to 10                    | mg/l                   |
| <b>Bacteria toxicity</b>  |  |                          |                        |
| <b>methyl methacrylate</b>  |  |                          |                        |
| Species   | Pseudomonas putida                                 |                          |                        |
| EC3   | 100  |                          | mg/l                   |
| Duration of exposure  | 16   | h                        |                        |
| <b>12.2. Persistence and degradability</b>  |  |                          |                        |
| For this subsection there is no ecotoxicological data available on the product as such. |  |                          |                        |
| <b>Biodegradability</b>   |  |                          |                        |
| <b>methyl methacrylate</b>  |  |                          |                        |
| Value   | 94   |                          | %                      |
| Duration of test  | 14   | Days                     |                        |
| evaluation  | readily degradable                                 |                          |                        |
| Method  | OECD 301 C   |                          |                        |
| <b>styrene</b>  |  |                          |                        |
| evaluation  | Readily biodegradable (according to OECD criteria) |                          |                        |
| <b>12.3. Bioaccumulative potential</b>  |  |                          |                        |
| For this subsection there is no ecotoxicological data available on the product as such. |  |                          |                        |
| <b>Octanol/water partition coefficient (log Pow)</b>                                    |  |                          |                        |
| Remarks   | No data available                                  |                          |                        |
| <b>12.4. Mobility in soil</b>   |  |                          |                        |
| For this subsection there is no ecotoxicological data available on the product as such. |  |                          |                        |
| <b>12.5. Results of PBT and vPvB assessment</b>   |  |                          |                        |
| The product does not contain PBT/vPvB-substances.                                       |  |                          |                        |

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**12.6. Other adverse effects**

For this subsection there is no ecotoxicological data available on the product as such.



**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 07 02 08\* other still bottoms and reaction residues  
 The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.

**SECTION 14: Transport information**

|                                  | Land transport ADR/RID  | Marine transport IMDG/GGVSee  |
|----------------------------------|---|---|
| Tunnel restriction code          | D/E   |   |
| 14.1. UN number                  | 1866  | 1866  |
| 14.2. UN proper shipping name    | RESIN SOLUTION  | RESIN SOLUTION  |
| 14.3. Transport hazard class(es) | 3   | 3   |
| Label                            |  |  |
| 14.4. Packing group              | III   | III   |
| Limited Quantity                 | 5 l   |   |
| Transport category               | 3   |   |

**Information for all modes of transport****14.6. Special precautions for user**

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (EU) 2,22 %

**Major-accident categories acc. 2012/18/EU**

Category P5c FLAMMABLE LIQUID

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**National regulations**

Observe employment restrictions for young people.  
 Observe employment restrictions for child bearing mothers and nursing mothers.  
 Users must have undergone special training course approved by the labor inspectorate for work with products containing styrene.

**Other information**

The product does not contain substances of very high concern (SVHC).

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

|       |   |
|-------|---|
| H225  | Highly flammable liquid and vapour.                             |
| H226  | Flammable liquid and vapour.                                    |
| H302  | Harmful if swallowed.   |
| H304  | May be fatal if swallowed and enters airways.                   |
| 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.   |
| H335  | May cause respiratory irritation.                               |
| H341  | Suspected of causing genetic defects.                           |
| H351  | Suspected of causing cancer.                                    |
| H360F | May damage fertility.   |
| H361d | Suspected of damaging the unborn child.                         |
| H372  | Causes damage to organs through prolonged or repeated exposure. |
| H400  | Very toxic to aquatic life.                                     |
| H412  | Harmful to aquatic life with long lasting effects.              |

**Abbreviations**

CAS: Chemical Abstracts Service  
 EAK: Europäischer Abfallkatalog  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: Very persistent and very bioaccumulative  
 VOC: Volatile Organic Compound

**CLP categories listed in Chapter 3**

|                   |  |
|-------------------|--|
| Acute Tox. 4      | Acute toxicity, Category 4                                     |
| Aquatic Acute 1   | Hazardous to the aquatic environment, acute, Category 1        |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3      |
| Asp. Tox. 1       | Aspiration hazard, Category 1                                  |
| Carc. 2           | Carcinogenicity, Category 2                                    |
| Eye Dam. 1        | Serious eye damage, Category 1                                 |
| Eye Irrit. 2      | Eye irritation, Category 2                                     |
| Flam. Liq. 2      | Flammable liquid, Category 2                                   |
| Flam. Liq. 3      | Flammable liquid, Category 3                                   |
| Muta. 2           | Germ cell mutagenicity, Category 2                             |
| Repr. 1B          | Reproductive toxicity, Category 1B                             |
| Repr. 2           | Reproductive toxicity, Category 2                              |
| Skin Irrit. 2     | Skin irritation, Category 2                                    |
| Skin Sens. 1      | Skin sensitization, Category 1                                 |
| STOT RE 1         | Specific target organ toxicity - repeated exposure, Category 1 |
| STOT SE 3         | Specific target organ toxicity - single exposure, Category 3   |

**Supplemental information**

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Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.