

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.03.2020

Version number 16

Revision: 10.03.2020

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

### 1.1 Product identifier

Trade name: **Machine Filler**  
**Longtime Filler**

Article number: 20121, 20132

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

No further relevant information available.

Application of the substance / the mixture

Knife filler/ Surfacer  
Polyester resin

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

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER  
Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word

Warning

· Hazard-determining components of labelling:

styrene  
maleic anhydride  
cobalt(II) 2-ethylhexanoate  
2,2'-(m-tolylimino)diethanol

· Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to the hearing organs through prolonged or repeated exposure.

· Precautionary statements

H412 Harmful to aquatic life with long lasting effects.  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/attention if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

During processing and product hardening the network generator is released as fume. Consequently, take care for adequate air conditioning and for fume exhaustion on request.

· Results of PBT and vPvB assessment

· PBT: Not applicable.  
· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

|   |  |      |
|---|--|------|
| CAS: 100-42-5<br>EINECS: 202-851-5<br>Index number: 601-026-00-0<br>Reg.nr.: 01-2119457861-32 | styrene<br>Flam. Liq. 3, H226<br>Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304<br>Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335<br>Aquatic Chronic 3, H412 | <10% |
|---|--|------|

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|   |   |      |
|---|---|------|
| CAS: 25013-15-4<br>EINECS: 246-562-2<br>Reg.nr.: 01-2119622074-50-0000                              | vinyltoluene<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319  | 1-5% |
| CAS: 7779-90-0<br>EINECS: 231-944-3<br>Index number: 030-011-00-6<br>Reg.nr.: 01-2119485044-40-0000 | trizinc bis(orthophosphate)<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410   | 1-5% |
| CAS: 91-99-6<br>EINECS: 202-114-8<br>Reg.nr.: 01-2120791683-42                                      | 2,2'-(m-tolylimino)diethanol<br>STOT RE 2, H373<br>Eye Dam. 1, H318<br>Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317                               | <1%  |
| CAS: 1308-38-9<br>EINECS: 215-160-9<br>Reg.nr.: 01-2119433951-39-0000                               | dichromium trioxide<br>substance with a Community workplace exposure limit  | <1%  |
| CAS: 141-78-6<br>EINECS: 205-500-4<br>Index number: 607-022-00-5<br>Reg.nr.: 01-2119475103-46       | ethyl acetate<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336  | <1%  |
| CAS: 136-52-7<br>EINECS: 205-250-6<br>Reg.nr.: 01-2119524678-29-xxxx                                | cobalt(II) 2-ethylhexanoate<br>Repr. 1A, H360F<br>Aquatic Acute 1, H400<br>Eye Irrit. 2, H319; Skin Sens. 1A, H317<br>Aquatic Chronic 3, H412                     | <1%  |
| CAS: 123-31-9<br>EINECS: 204-617-8<br>Index number: 604-005-00-4<br>Reg.nr.: 01-2119524016-51       | 1,4-dihydroxybenzene<br>Acute Tox. 3, H311<br>Muta. 2, H341; Carc. 2, H351<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Acute Tox. 4, H302; Skin Sens. 1, H317 | <1%  |
| CAS: 108-31-6<br>EINECS: 203-571-6<br>Index number: 607-096-00-9<br>Reg.nr.: 01-2119472428-31       | maleic anhydride<br>Resp. Sens. 1, H334; STOT RE 1, H372<br>Skin Corr. 1B, H314; Eye Dam. 1, H318<br>Acute Tox. 4, H302; Skin Sens. 1A, H317                      | <1%  |

Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Take affected persons out into the fresh air. Position and transport stably in side position.
- After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

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

Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **Information for doctor:**

Headache  
Dizziness  
Dizziness  
Nausea

With reference to section 2 the formulation contains styrene in the indicated mass concentration range. Styrene fumes will preferably be incorporated by inhalation via respiratory tract, skin resorption is currently considered as an inferior way of incorporation. In case of inhalation styrene is absorbed in a 60-90% range. Distribution in organism occurs rapidly, the maximum blood concentration can be analyzed after one hour after incorporation. Styrene exposition affects skin, mucous membranes, and central nervous system (CNS). Acute damages / risks to health:

In case of styrene poisoning mainly damages to and interactions with central nervous system (CNS) arise. In concentration ranges above 200 ml/m<sup>3</sup> symptoms such as fatigue, nausea, imbalance and prolonged response times are observed.

Chronical health risks:

Effects at central and peripheral nervous system and respiratory tract are evident in literature.

Main health risks are:

- prolonged response times
- reduced cognitive performance, partial amnesia
- retardation of nervous impulse transition speed
- disturbances of pulmonary function

· **Hazards**

Danger of impaired breathing.

Skin contact with polyester and epoxy resin solutions as ingredient of the product should be avoided due to risks of skin irritations or allergic skin appearances. If occasional hand contact can not be avoided, protection gloves, proper protection ointments and protective agents generating a protective layer on the skin were applied.

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

If swallowed, gastric irrigation with added, activated carbon.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.

#### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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

Pick up mechanically.  
Ensure adequate ventilation.  
Dispose of the material collected according to regulations.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Keep receptacles tightly sealed.  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Prevent formation of aerosols.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Ensure good ventilation/exhaustion at the workplace.  
Use only in well ventilated areas.

#### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Protect from heat.

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

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Store in a cool location.  
Store only in the original receptacle.  
Prevent any seepage into the ground.

##### · Information about storage in one common storage facility:

Do not store together with acids.  
Do not store together with alkalis (caustic solutions).  
Store away from oxidising agents.  
Store away from foodstuffs.

##### · Further information about storage conditions:

Protect from heat and direct sunlight.  
Store in cool, dry conditions in well sealed receptacles.  
Keep container tightly sealed.  
Store receptacle in a well ventilated area.

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· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

#### 100-42-5 styrene

WEL Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 430 mg/m<sup>3</sup>, 100 ppm

#### 1308-38-9 dichromium trioxide

WEL Long-term value: 0.5 mg/m<sup>3</sup>  
as Cr

#### 141-78-6 ethyl acetate

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm  
Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

#### 136-52-7 cobalt(II) 2-ethylhexanoate

WEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Co; Carc, Sen

#### 123-31-9 1,4-dihydroxybenzene

WEL Long-term value: 0.5 mg/m<sup>3</sup>

#### 108-31-6 maleic anhydride

WEL Short-term value: 3 mg/m<sup>3</sup>  
Long-term value: 1 mg/m<sup>3</sup>  
Sen

### · DNELs

#### 100-42-5 styrene

|            |                            |  |
|------------|----------------------------|--|
| Oral       | DNEL (Langzeit-wiederholt) | 2.1 mg/kg bw/day (BEV)   |
| Dermal     | DNEL (Langzeit-wiederholt) | 406 mg/kg bw/day (ARB)<br>343 mg/kg bw/day (BEV)                                 |
| Inhalative | DNEL (Kurzzeit-akut)       | 289-306 mg/m <sup>3</sup> Air (ARB)<br>174.25-182.75 mg/m <sup>3</sup> Air (BEV) |
|            | DNEL (Langzeit-wiederholt) | 85 mg/m <sup>3</sup> Air (ARB)<br>10.2 mg/m <sup>3</sup> Air (BEV)               |

#### 25013-15-4 vinyltoluene

Inhalative DNEL (Langzeit-wiederholt) 37 mg/m<sup>3</sup> Air (ARB)

#### 7779-90-0 trizinc bis(orthophosphate)

|            |                            |  |
|------------|----------------------------|--|
| Oral       | DNEL (Langzeit-wiederholt) | 0.83 mg/kg bw/day (BEV)  |
| Dermal     | DNEL (Langzeit-wiederholt) | 83 mg/kg bw/day (ARB)<br>83 mg/kg bw/day (BEV)                   |
| Inhalative | DNEL (Langzeit-wiederholt) | 5 mg/m <sup>3</sup> Air (ARB)<br>2.5 mg/m <sup>3</sup> Air (BEV) |

#### 1308-38-9 dichromium trioxide

|            |                            |  |
|------------|----------------------------|--|
| Inhalative | DNEL (Kurzzeit-akut)       | 2 mg/m <sup>3</sup> Air (ARB)                                      |
|            | DNEL (Langzeit-wiederholt) | 0.5 mg/m <sup>3</sup> Air (ARB)<br>0.5 mg/m <sup>3</sup> Air (BEV) |

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**141-78-6 ethyl acetate**

|            |                            |  |
|------------|----------------------------|--|
| Oral       | DNEL (Langzeit-wiederholt) | 4.5 mg/kg bw/day (BEV)                         |
| Dermal     | DNEL (Langzeit-wiederholt) | 63 mg/kg bw/day (ARB)<br>37 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Kurzzeit-akut)       | 1,468 mg/m³ Air (ARB)<br>734 mg/m³ Air (BEV)   |
|            | DNEL (Langzeit-wiederholt) | 734 mg/m³ Air (ARB)<br>367 mg/m³ Air (BEV)     |

**136-52-7 cobalt(II) 2-ethylhexanoate**

|            |                            |  |
|------------|----------------------------|--|
| Oral       | DNEL (Langzeit-wiederholt) | 0.0558 mg/kg bw/day (BEV)                      |
| Inhalative | DNEL (Langzeit-wiederholt) | 0.235 mg/m³ Air (ARB)<br>0.037 mg/m³ Air (BEV) |

**123-31-9 1,4-dihydroxybenzene**

|            |                            |   |
|------------|----------------------------|---|
| Dermal     | DNEL (Langzeit-wiederholt) | 128 mg/kg bw/day (ARB)<br>64 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 1-7 mg/m³ Air (ARB)<br>0.5-1.74 mg/m³ Air (BEV) |

**108-31-6 maleic anhydride**

|            |                            |                         |
|------------|----------------------------|-------------------------|
| Dermal     | DNEL (Kurzzeit-akut)       | 0.04 mg/kg bw/day (ARB) |
|            | DNEL (Langzeit-wiederholt) | 0.04 mg/kg bw/day (ARB) |
| Inhalative | DNEL (Kurzzeit-akut)       | 0.8 mg/m³ Air (ARB)     |
|            | DNEL (Langzeit-wiederholt) | 0.4 mg/m³ Air (ARB)     |

## · PNECs

**100-42-5 styrene**

|                |   |
|----------------|---|
| PNEC (wässrig) | 5 mg/l (KA)<br>0.014 mg/l (MW)<br>0.028 mg/l (SW)<br>0.04 mg/l (WAS)                      |
| PNEC (fest)    | 0.2 mg/kg Trockengew (BO)<br>0.307 mg/kg Trockengew (MWS)<br>0.614 mg/kg Trockengew (SWS) |

**25013-15-4 vinyltoluene**

|                |  |
|----------------|--|
| PNEC (wässrig) | 1 mg/l (KA)<br>0.002 mg/l (MW)<br>0.0498 mg/l (SW)   |
| PNEC (fest)    | 0.133 mg/kg Trockengew (BO)<br>0.0684 mg/kg Trockengew (MWS)<br>0.684 mg/kg Trockengew (SWS) |

**1308-38-9 dichromium trioxide**

|                |   |
|----------------|---|
| PNEC (wässrig) | 10 mg/l (KA)<br>0.0047 mg/l (MW)<br>0.0047 mg/l (SW)                                    |
| PNEC (fest)    | 3.2 mg/kg Trockengew (BO)<br>1.31 mg/kg Trockengew (MWS)<br>18.2 mg/kg Trockengew (SWS) |

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**141-78-6 ethyl acetate**

|                |  |
|----------------|--|
| PNEC (wässrig) | 650 mg/l (KA)<br>0.024 mg/l (MW)<br>0.24 mg/l (SW)<br>1.65 mg/l (WAS)                      |
| PNEC (fest)    | 0.148 mg/kg Trockengew (BO)<br>0.115 mg/kg Trockengew (MWS)<br>1.15 mg/kg Trockengew (SWS) |

**136-52-7 cobalt(II) 2-ethylhexanoate**

|                |   |
|----------------|---|
| PNEC (wässrig) | 0.37 mg/l (KA)<br>0.00236 mg/l (MW)<br>0.00051 mg/l (SW)                                    |
| PNEC (fest)    | 10.9 mg/kg Trockengew (BO)<br>9.5 mg/kg Trockengew (MWS)<br>9.5-11.2 mg/kg Trockengew (SWS) |

**123-31-9 1,4-dihydroxybenzene**

|                |   |
|----------------|---|
| PNEC (wässrig) | 0.71 mg/l (KA)<br>0.0000114 mg/l (MW)<br>0.000114 mg/l (SW)<br>0.00134 mg/l (WAS)                   |
| PNEC (fest)    | 0.000129 mg/kg Trockengew (BO)<br>0.000097 mg/kg Trockengew (MWS)<br>0.00098 mg/kg Trockengew (SWS) |

**108-31-6 maleic anhydride**

|                |   |
|----------------|---|
| PNEC (wässrig) | 44.6 mg/l (KA)<br>0.00446 mg/l (MW)<br>0.0446 mg/l (SW)<br>0.4281 mg/l (WAS)                  |
| PNEC (fest)    | 0.0415 mg/kg Trockengew (BO)<br>0.0334 mg/kg Trockengew (MWS)<br>0.334 mg/kg Trockengew (SWS) |

• Additional information: The lists valid during the making were used as basis.

• **8.2 Exposure controls**

• Personal protective equipment:

• General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

• Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:

Short term filter device:

Filter A/P2

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

ARRETIL (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

Kresto Classic (<http://debstoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

#### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

· Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Value for the permeation: Level  $\leq 2$ , 30 min

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

· Not suitable are gloves made of the following materials:

Chloroprene rubber, CR

Leather gloves

Strong material gloves

· Eye protection:



#### Tightly sealed goggles

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· Body protection: Protective work clothing

## SECTION 9: Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form: Structurally viscous

Colour: Various colours

· Odour: Specific type

· pH-value: Not applicable

#### · Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 145 °C

· Flash point: 32 °C

· Ignition temperature: 480 °C

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### · Explosion limits:

Lower: 1.2 Vol %

Upper: 8.9 Vol %

· Vapour pressure at 20 °C: 6 hPa

· Density at 20 °C: 2.02 g/cm<sup>3</sup> ([1,92 - 2,05 g/cm<sup>3</sup>])

#### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

#### · Viscosity:

Dynamic: Not determined.

Not applicable

Kinematic: Not determined.

Not applicable

#### · Solvent content:

Organic solvents: 12.0 %

Solids content: 87.3 %

### · 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### · 10.1 Reactivity

No further relevant information available.

### · 10.2 Chemical stability

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

No decomposition if used and stored according to specifications.

### · 10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with peroxides and other radical forming substances.

Reacts with strong alkali.

Reacts with strong acids.

Reacts with strong oxidising agents.

### · 10.4 Conditions to avoid

No further relevant information available.

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- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide  
Organic phosphorus compounds  
Possible in traces.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

• LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

|            |          |            |
|------------|----------|------------|
| Inhalative | LC50/4 h | >78.5 mg/l |
|------------|----------|------------|

#### 100-42-5 styrene

|            |          |  |
|------------|----------|--|
| Oral       | LD50     | >2,000 mg/kg (rat)                           |
| Dermal     | LD50     | >2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402) |
| Inhalative | LC50/4h  | 9.5 mg/m <sup>3</sup> (mouse)                |
|            | LC50/4 h | 11.8 mg/l (rat)                              |
|            | NOAEC    | 4.34 mg/l (rat)                              |

#### 25013-15-4 vinyltoluene

|            |          |                                |
|------------|----------|--------------------------------|
| Oral       | LD50     | 3,680 mg/kg (rat)              |
|            | NOAEL    | 600 mg/kg (rat)                |
| Dermal     | LD50     | 4,490 mg/kg (rabbit)           |
| Inhalative | LC50/4h  | >3,535 mg/m <sup>3</sup> (rat) |
|            | LC50/4 h | 11 mg/l (ATE)                  |

#### 7779-90-0 trizinc bis(orthophosphate)

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | >5,000 mg/kg (rat) |
| Inhalative | LC50/4 h | >5.7 mg/l (rat)    |

#### 91-99-6 2,2'-(m-tolylimino)diethanol

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 500 mg/kg (ATE) |
|------|------|-----------------|

#### 1308-38-9 dichromium trioxide

|            |          |                             |
|------------|----------|-----------------------------|
| Oral       | LD50     | 10,000 mg/kg (rat)          |
| Inhalative | LC50/4 h | >5.41 mg/l (rat) (OECD 403) |

#### 141-78-6 ethyl acetate

|            |             |                           |
|------------|-------------|---------------------------|
| Oral       | LD50        | 4,100 mg/kg (mouse)       |
|            |             | 5,620 mg/kg (rat)         |
|            |             | 4,934 mg/kg (rbt)         |
|            | NOAEL-Werte | 900 mg/kg (rat)           |
| Dermal     | LD50        | >18,000 mg/kg (rabbit)    |
| Inhalative | LC50        | 58 mg/l (rat)             |
|            | LC50/4 h    | 1,600 mg/l (rat)          |
|            | LC50/1h     | 200 mg/l (rat)            |
|            | LC50/8h     | 5.86 mg/l (rat)           |
|            | LC50/48h    | 333 mg/l (Leuciscus idus) |

#### 123-31-9 1,4-dihydroxybenzene

|      |      |                            |
|------|------|----------------------------|
| Oral | LD50 | 302 mg/kg (rat) (OECD 401) |
|------|------|----------------------------|

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|            |                                  |  |
|------------|----------------------------------|--|
| Dermal     | NOEL                             | 50 mg/kg (mouse)<br>75 mg/kg (rabbit)<br>100 mg/kg (rat) |
|            | NOAEL                            | 15 mg/kg (rat)   |
|            | LD50                             | >900 mg/kg (rat)   |
|            | <b>108-31-6 maleic anhydride</b> |  |
| Oral       | LD50                             | 1,090-2,620 mg/kg (rabbit)<br>400-480 mg/kg (rat)        |
| Dermal     | LD50                             | 2,620 mg/kg (rabbit)                                     |
| Inhalative | LC50/1h                          | >4.35 mg/l (rat)   |
|            | LC50/48h                         | 138 mg/l (lem)   |

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Experience with humans: After incorporation and inhalation styrene predominantly will be metabolized in the organism to mandelic and phenylglyoxylic acid and matabolites will pass through urine excretion.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Suspected of damaging the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure May cause damage to the hearing organs through prolonged or repeated exposure.
- Aspiration hazard Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### · 12.1 Toxicity

- Aquatic toxicity:

#### 100-42-5 styrene

|           |  |
|-----------|--|
| EC50/96h  | 6.3 mg/l (Pseudokirchneriella subcapitata)                     |
| EC50      | 500 mg/l (BES) (ISO Vorschrift 8192-1986 E)                    |
|           | 5.5 mg/l (Photobac. phosphoreum)                               |
| IC50/72h  | 4.9 mg/l (green alge)  |
|           | 1.4 mg/l (selenastrum capricornutum)                           |
| IC5/8d    | >200 mg/l (Scenedesmus quadricauda)                            |
| EC10/16h  | 72 mg/l (pseudomonas putida)                                   |
| EC50/16h  | >72 mg/l (pseudomonas putida)                                  |
| EC50/8d   | >200 mg/l (Scenedesmus quadricauda)                            |
| EC50/72u  | >1-<10 mg/l (green alge)                                       |
| EC20/0.5h | 140 mg/l (BES) (OECD 209)                                      |
| NOEC/21d  | 1.01 mg/l (daphnia magna)                                      |
| EC10      | 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050) |
| EC50/48h  | 0.56 mg/l (green alge)   |
|           | 3.3-7.4 mg/l (daphnia magna)                                   |
| EC50/72h  | 0.46-4.3 mg/l (Pseudokirchneriella subcapitata)                |

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|          |  |
|----------|--|
| LC50/96h | >1-<10 mg/l (piscis)                   |
|          | 19.03-33.53 mg/l (lem)                 |
|          | 3.24-4.99 mg/l (pimephales promelas)   |
|          | 6.75-14.5 mg/l (Pimephales promelas)   |
|          | 58.75-95.32 mg/l (poecilia reticulata) |
| LC50/72h | 4.9 mg/l (green alge)                  |

**25013-15-4 vinyltoluene**

|           |                                      |
|-----------|--------------------------------------|
| EC50      | 2.6 mg/l (Bluegill.)                 |
| EC50/48h  | 1.3 mg/l (daphnia magna)             |
| NOELR/72h | 1.6 mg/l (green alge)                |
| NOEC/21d  | 0.498 mg/l (daphnia magna)           |
|           | 0.563 mg/l (piscis)                  |
| EC50/72h  | 5.2 mg/l (Fathead minnow)            |
|           | 2.6 mg/l (selenastrum capricornutum) |
| LC50/96h  | 5.2-23.4 mg/l (piscis)               |

**7779-90-0 trizinc bis(orthophosphate)**

|           |                                       |
|-----------|---------------------------------------|
| EC50/48h  | 28.2 mg/l (daphnia magna)             |
| ErC50/72h | <0.3 mg/l (Desmodesmus subspicatus)   |
| EC50/48h  | <1.7 mg/l (daphnia magna)             |
| EC50/72h  | 0.28 mg/l (Selenastrum capricornutum) |
| LC50/96h  | <5.1 mg/l (Oncorhynchus mykiss)       |

**91-99-6 2,2'-(m-tolylimino)diethanol**

|          |   |
|----------|---|
| EC50/48h | 107 mg/l (daphnia magna)                    |
| NOEC     | 100 mg/l (Pseudokirchneriella subcapitata)  |
| LC50/96h | >102 mg/l (Danio rerio.)                    |
| LC50/72h | >100 mg/l (Pseudokirchneriella subcapitata) |

**1308-38-9 dichromium trioxide**

|          |                                  |
|----------|----------------------------------|
| EC50     | >10,000 mg/l (BES)               |
| LC0/96h  | >10,000 mg/l (Brachydanio rerio) |
| LC50/96h | >10,000 mg/l (Danio rerio.)      |

**141-78-6 ethyl acetate**

|           |                                      |
|-----------|--------------------------------------|
| EC50/96h  | 220 mg/l (Pimephales promelas)       |
| EC10/18h  | 2,900 mg/l (pseudomonas putida)      |
| EC50/48h  | 610 mg/l (daphnia magna) (DIN 38412) |
|           | 5,600 mg/l (Desmodesmus subspicatus) |
| IC50/48h  | 3,300 mg/l (Scenedesmus subspicatus) |
| LC 0      | 29.3 mg/l (rat)                      |
| NOELR/72h | >100 mg/l (Desmodesmus subspicatus)  |
| NOEC/21d  | 2.4 mg/l (daphnia magna)             |
| EC10      | 2,900 mg/l (pseudomonas putida)      |
| EC50/48h  | 3,300 mg/l (Scenedesmus subspicatus) |
| LC50/96h  | 230 mg/l (Oncorhynchus mykiss)       |
|           | 230 mg/l (Pimephales promelas)       |

**136-52-7 cobalt(II) 2-ethylhexanoate**

|          |                       |
|----------|-----------------------|
| IC50/72h | 528 mg/l (green alge) |
|----------|-----------------------|

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**123-31-9 1,4-dihydroxybenzene**

|           |   |
|-----------|---|
| EC50/24h  | 0.12 mg/l (daphnia magna)                             |
| EC50      | 13.5 mg/l (Desmodesmus subspicatus)                   |
| EC50/48h  | 0.134 mg/l (daphnia magna) (OECD 202)                 |
| ErC50/72h | 0.335 mg/l (Pseudokirchneriella subcapitata) (IUCLID) |
| NOELR/72h | 0.019 mg/l (Pseudokirchneriella subcapitata)          |
| NOEC/21d  | 0.0057 mg/l (daphnia magna) (OECD 211)                |
| EC50/48h  | 0.29 mg/l (daphnia magna)                             |
| EC50/72h  | 0.335 mg/l (Scenedesmus subspicatus) (OECD 201)       |
| LC50/96h  | 0.17 mg/l (Brachydanio rerio)                         |
|           | 0.638 mg/l (Oncorhynchus mykiss) (OECD 203)           |
|           | 0.044-0.18 mg/l (pimephales promelas) (IUCLID)        |

**108-31-6 maleic anhydride**

|           |   |
|-----------|---|
| EC50/24h  | 316-330 mg/l (daphnia magna)                            |
| EC50      | 77 mg/l (daphnia magna)                                 |
| EC10/18h  | 44.6 mg/l (pseudomonas putida)                          |
| EC50/48h  | 42.81 mg/l (daphnia magna)                              |
| ErC50/72h | 74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 202) |
| NOELR/72h | 150 mg/l (Pseudokirchneriella subcapitata)              |
| NOEC/21d  | 10 mg/l (daphnia magna)                                 |
| EC50/72h  | 29 mg/l (Desmodesmus subspicatus)                       |
|           | 74.32 mg/l (Pseudokirchneriella subcapitata)            |
|           | >150 mg/l (Selenastrum capricornutum)                   |
| LC50/96h  | 75 mg/l (Iepomis macrochirus)                           |
|           | 75 mg/l (Oncorhynchus mykiss)                           |

• **12.2 Persistence and degradability**

No further relevant information available.

• **12.3 Bioaccumulative potential**

No further relevant information available.

• **12.4 Mobility in soil**

No further relevant information available.

• **Ecotoxicological effects:**

• **Remark:**

Harmful to fish

• **Additional ecological information:**

• **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

• **12.5 Results of PBT and vPvB assessment**

• **PBT:**

Not applicable.

• **vPvB:**

Not applicable.

• **12.6 Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations**

• **13.1 Waste treatment methods**

• **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• **European waste catalogue**

|          |   |
|----------|---|
| 20 00 00 | MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS |
|----------|---|

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|           |   |
|-----------|---|
| 20 01 00  | separately collected fractions (except 15 01)                     |
| 20 01 27* | paint, inks, adhesives and resins containing hazardous substances |

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- Recommended cleansing agents: Alcohol  
acetone

## SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA UN3269

- **14.2 UN proper shipping name**
- ADR 3269 POLYESTER RESIN KIT
- IMDG, IATA POLYESTER RESIN KIT

- **14.3 Transport hazard class(es)**

- ADR



- Class 3 (F3) Flammable liquids.
- Label 3

- IMDG, IATA



- Class 3 Flammable liquids.
- Label 3

- **14.4 Packing group**

- ADR, IMDG, IATA III

- **14.5 Environmental hazards:**

- Marine pollutant: No

- **14.6 Special precautions for user**

- Hazard identification number (Kemler code): -
- EMS Number: F-E,S-D
- Stowage Category A

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

Not applicable.

- Transport/Additional information:

- ADR
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- Transport category 3

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|                                   |  |
|-----------------------------------|--|
| • <u>Tunnel restriction code</u>  | E  |
| • <u>Remarks:</u>                 | Without hardener component: no dangerous goods < 450 l   |
| • <u>IMDG</u>                     | 5L   |
| • <u>Limited quantities (LQ)</u>  | Code: E1   |
| • <u>Excepted quantities (EQ)</u> | Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| • <u>Remarks:</u>                 | Without hardener component: no dangerous goods < 30 l  |
| • <u>IATA</u>                     |  |
| • <u>Remarks:</u>                 | Without hardener component: 3/III UN 1866 Resin Solution   |
| • <u>UN "Model Regulation":</u>   | UN 3269 POLYESTER RESIN KIT, 3, III  |

## SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- VOC EU 254.7 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H302 Harmful if swallowed.
  - H304 May be fatal if swallowed and enters airways.
  - H311 Toxic in contact with skin.
  - 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.

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- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 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 the hearing organs through prolonged or repeated exposure.  
 H373 May cause damage to the hearing organs through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.  
 refer to Technical Data Sheet (TDS)

· Recommended restriction of use

· Department issuing SDS:

· Abbreviations and acronyms:

### Laboratory

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 3: Acute toxicity - dermal – Category 3  
 Acute Tox. 4: Acute toxicity - inhalation – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Resp. Sens. 1: Respiratory sensitisation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 Muta. 2: Germ cell mutagenicity – Category 2  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 1A: Reproductive toxicity – Category 1A  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
 REACH directive 1907/2006/EC

· Sources

· \* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC