

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 06.05.2025

Version number 13 (replaces version 12)

Revision: 06.05.2025

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

### 1.1 Product identifier

- Trade name: **Poly-Fibre-Filler**
- Article number: 30106, 30109, 30112, 30113, 30114
- UFI: ODD0-2057-E00K-3TDE

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

- 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:

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

Flam. Liq. 3	H226	Flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
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.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- Storage: Store in a well-ventilated place. Keep cool.

### 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

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



GHS02 GHS07 GHS08

- Signal word: Warning
- Hazard-determining components of labelling: styrene
- Hazard statements: H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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<p>· <u>Precautionary statements</u></p>	<p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to the hearing organs through prolonged or repeated exposure.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read carefully and follow all instructions.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260 Do not breathe vapours.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves / eye protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<p>· <b>2.3 Other hazards</b></p>	<p>The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.</p>
<p>· <u>Results of PBT and vPvB assessment</u></p>	
<p>· <u>PBT:</u></p>	Not applicable.
<p>· <u>vPvB:</u></p>	Not applicable.
<p>· <u>Determination of endocrine-disrupting properties</u></p>	For information on endocrine disrupting properties see section 11.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

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

· Dangerous components:

CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226 Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	<10%
CAS: 25013-15-4 EINECS: 246-562-2 Reg.nr.: 01-2119622074-50-0000	vinyltoluene Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	1-5%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40-0000	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%

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CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	zinc oxide Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1)	<1%
CAS: 130-15-4 EINECS: 204-977-6 Reg.nr.: 01-2120760462-57	1,4-naphthoquinone Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 1, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317; STOT SE 3, H335	<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: Take affected persons out into the fresh air.  
Position and transport stably in side position.  
Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.

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

Headache  
Breathing difficulty  
Profuse sweating  
Nausea  
Dizziness  
Dizziness  
Danger of impaired breathing.

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

If swallowed, gastric irrigation with added, activated carbon.  
If swallowed or in case of vomiting, danger of entering the lungs.

**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.

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- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
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**
  - Ensure adequate ventilation
  - Keep away from ignition sources.
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
- **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:**
  - Dispose of the material collected according to regulations.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.
- **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.
  - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - Use only in well ventilated areas.
  - Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection:
  - Fumes can combine with air to form an explosive mixture.
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles:
  - Store only in the original receptacle.
  - Prevent any seepage into the ground.
- Information about storage in one common storage facility:
  - Store away from oxidising agents.
  - Store away from foodstuffs.
- Further information about storage conditions:
  - Store receptacle in a well ventilated area.
  - Keep container tightly sealed.
- Storage class:
  - 3
- **7.3 Specific end use(s)**
  - No further relevant information available.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

**25013-15-4 vinyltoluene**

Oral	DNEL (Langzeit-wiederholt)	0.0833 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	1.65 mg/kg bw/day (ARB) 0.595 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	5.83 mg/m <sup>3</sup> Air (ARB) 1.04 mg/m <sup>3</sup> Air (BEV)

**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) 83 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	5 mg/m <sup>3</sup> Air (ARB) 2.5 mg/m <sup>3</sup> Air (BEV)

**1314-13-2 zinc oxide**

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

**130-15-4 1,4-naphthoquinone**

Inhalative	DNEL (Langzeit-wiederholt)	0.033 mg/m <sup>3</sup> Air (ARB)
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· PNECs**100-42-5 styrene**

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

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**25013-15-4 vinyltoluene**

PNEC (wässrig)	17 mg/l (KA)
	0.000319 mg/l (MW)
	0.0000319 mg/l (SW)
PNEC (fest)	0.00471 mg/kg Trockengew (BO)
	0.025 mg/kg Trockengew (MWS)
	1.245 mg/kg Trockengew (SWS)

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

PNEC (wässrig)	0.1 mg/l (KA)
	0.0072 mg/l (MW)
	0.0144 mg/l (SW)
PNEC (fest)	83.1 mg/kg Trockengew (BO)
	162.2 mg/kg Trockengew (MWS)
	146.9 mg/kg Trockengew (SWS)

**1314-13-2 zinc oxide**

PNEC (wässrig)	52 mg/l (KA)
	6.1 mg/l (MW)
	20.6 mg/l (SW)
PNEC (fest)	35.6 mg/kg Trockengew (BO)
	56.5 mg/kg Trockengew (MWS)
	117 mg/kg Trockengew (SWS)

**130-15-4 1,4-naphthoquinone**

PNEC (wässrig)	0.172 mg/l (KA)
	0.00261 mg/l (MW)
	0.0261 mg/l (SW)
PNEC (fest)	0.049 mg/kg Trockengew (BO)
	0.0321 mg/kg Trockengew (MWS)
	0.321 mg/kg Trockengew (SWS)

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

· **8.2 Exposure controls**

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.  
 Use skin protection cream for skin protection.  
 Clean skin thoroughly immediately after handling the product.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.

- Respiratory protection:

Short term filter device:  
 Filter A/P2

- Hand protection

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.  
 Preventive skin protection by use of skin-protecting agents is recommended.  
 After use of gloves apply skin-cleaning agents and skin cosmetics.  
 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

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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>).

**Protective gloves**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

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>)

· Material of gloves

Fluorocarbon rubber (Viton)

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

Value for the permeation: Level  $\leq 6$ , 480 min

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

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

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art\_No. 890)

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

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Chloroprene rubber, CR

Leather gloves

Strong material gloves

· Eye/face protection**Tightly sealed goggles**· Body protection:

Protective work clothing

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**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information**

· <u>Colour:</u>	Dark green
· <u>Odour:</u>	Specific type
· <u>Melting point/freezing point:</u>	Undetermined.
· <u>Boiling point or initial boiling point and boiling range</u>	145.2 °C
· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	1.2 Vol %
· <u>Upper:</u>	8.9 Vol %
· <u>Flash point:</u>	32 °C
· <u>Auto-ignition temperature:</u>	480 °C
· <u>pH</u>	Not determined.
	Not applicable
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Not miscible or difficult to mix.
· <u>Vapour pressure at 20 °C:</u>	6 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.99 g/cm <sup>3</sup>

**· 9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Structurally viscous
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	11.5 %
· <u>Solids content:</u>	65.5 %

**· Information with regard to physical hazard classes**

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Flammable liquid and vapour.
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

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**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 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.
- **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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **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	101 mg/l
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**100-42-5 styrene**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4h	9.5 mg/m <sup>3</sup> (mouse)
		11,800 mg/m <sup>3</sup> (rat)
	LC50/4 h	11.8 mg/l (rat)
	NOAEC	4.34 mg/l (rat)

**25013-15-4 vinyltoluene**

Oral	LD50	3,375 mg/kg (rat)
	NOAEL	600 mg/kg (rat)
Dermal	LD50	4,585 mg/kg (rabbit)
Inhalative	LC50/4h	>16,891 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) (OECD 401)
Inhalative	LC50/4 h	>5.7 mg/l (rat) (OECD 403)

**1314-13-2 zinc oxide**

Oral	LD50	7,950 mg/kg (mouse)
		>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5,700 mg/l (rat)

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**130-15-4 1,4-naphthoquinone**

Oral	LD50	124 mg/kg (rat)
	NOAEL-Werte	2 mg/kg (rat)
Dermal	LD50	300 mg/kg (ATE)
	LD50	202 mg/kg (rat)
Inhalative	LC50/4h	46 mg/m <sup>3</sup> (rat)
	LC50/4 h	0.005 mg/l (ATE)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.

**· 11.2 Information on other hazards**

- Endocrine disrupting properties

None of the ingredients is listed.

**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 (algae)
	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 (algae)
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 (algae)
	3.3-7.4 mg/l (daphnia magna)
EC50/72h	0.46-4.3 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>1-<10 mg/l (piscis)
	19.03-33.53 mg/l (Iem)
	3.24-4.99 mg/l (Pimephales promelas)
	6.75-14.5 mg/l (Pimephales promelas)

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LC50/72h	58.75-95.32 mg/l (poecilia reticulata) 4.9 mg/l (algae)
<b>25013-15-4 vinyltoluene</b>	
EC50	2.6 mg/l (Bluegill.)
EC50/48h	1.3 mg/l (daphnia magna)
ErC50/72h	4.3 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.563 mg/l (piscis)
NOELR/72h	1.6 mg/l (algae)
NOEC/21d	0.32 mg/l (daphnia magna) 0.563 mg/l (piscis)
EC10	0.25 mg/l (Desmodesmus subspicatus)
EC50/72h	0.319 mg/l (Desmodesmus subspicatus) 5.2 mg/l (Fathead minnow) 2.6 mg/l (senastrum capricornutum)
LC50/96h	5.2-23.4 mg/l (piscis) 5.2 mg/l (pimephales promelas)
<b>7779-90-0 trizinc bis(orthophosphate)</b>	
EC50/48h	0.21-0.34 mg/l (daphnia magna)
ErC50/72h	<0.3 mg/l (Desmodesmus subspicatus)
NOEC	≥0.03-≤1.57 mg/l (daphnia magna) ≥0.05-≤2.58 mg/l (piscis) 0.052 mg/l (senastrum capricornutum)
EC50/48h	<1.7 mg/l (daphnia magna)
EC50/72h	0.089-0.67 mg/l (senastrum capricornutum) 0.28 mg/l (Senastrum capricornutum)
LC50/96h	0.47-0.95 mg/l (piscis) <5.1 mg/l (Oncorhynchus mykiss)
<b>1314-13-2 zinc oxide</b>	
EC50/48h	>1,000 mg/l (daphnia magna)
NOELR/72h	0.017 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	1 mg/l (daphnia magna)
EC50/72h	0.17 mg/l (senastrum capricornutum)
LC50/96h	>320 mg/l (lem) 1.1 mg/l (Oncorhynchus mykiss) 2,246 mg/l (pimephales promelas)
LC50/72h	0.17 mg/l (Senastrum capricornutum)
<b>130-15-4 1,4-naphthoquinone</b>	
NOEC	0.011 mg/kg (algae)
EC50/48h	0.026 mg/l (daphnia magna)
EC50/72h	0.011 mg/l (algae) 0.42 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	0.045 mg/l (Oryzias latipes)

· **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.

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**12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse 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

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

· **Uncleaned packaging:**

- **Recommendation:** Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Alcohol

**SECTION 14: Transport information****14.1 UN number or ID 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

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· <b>14.4 Packing group</b>	
· ADR, IMDG, IATA	III
· <b>14.5 Environmental hazards:</b>	
· Marine pollutant:	No
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-E,S-D
· Stowage Category	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	3
· Tunnel restriction code	E
· Remarks:	Without hardener component: no dangerous goods < 450 l
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: See SP340
· Remarks:	Without hardener component: no dangerous goods < 450 l
· IATA	
· Remarks:	Without hardener component: 3/III UN 1866 Resin Solution
· UN "Model Regulation":	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
  - Seveso category
  - Qualifying quantity (tonnes) for the application of lower-tier requirements
  - Qualifying quantity (tonnes) for the application of upper-tier requirements
  - REGULATION (EC) No 1907/2006 ANNEX XVII
- None of the ingredients is listed.  
P5c FLAMMABLE LIQUIDS  
5,000 t  
50,000 t  
Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 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.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 228.1 g/l

· DECOPAINT: subject to EU-regulations 2004/42/EG (ANNEX II)

EU Grenzwert für dieses Produkt (Produktkategorie (Kat. B/b)): 250 g/l (2007) / 250 g/l (2010).

Das Produkt enthält max. 125 g/l VOC.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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.

· Department issuing SDS: Laboratory

· Date of previous version: 18.04.2024

· Version number of previous version: 12

· Abbreviations and acronyms: ADR: Accord relatif au transport international 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  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 1: Acute toxicity – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
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

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Skin Sens. 1: Skin sensitisation – Category 1

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

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