

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

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

1.1 Product identifier

- Trade name: **Multi-Purpose Filler No. 2**
- Article number: 20317, 20319, 20330, 20380, 20388, 20309, 20318
- UFI: T3C0-F0T8-U005-5PNF

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:

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. |
| Skin Sens. 1 | H317 | May cause an allergic skin reaction. |
| 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
maleic anhydride

Hazard statements

H226 Flammable liquid and vapour.

(Contd. on page 2)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 1)

<u>Precautionary statements</u>	<p>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.</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. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. 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.</p>
2.3 Other hazards	
<u>Results of PBT and vPvB assessment</u>	
<u>PBT:</u>	Not applicable.
<u>vPvB:</u>	Not applicable.
<u>Determination of endocrine-disrupting properties</u>	For information on endocrine disrupting properties see section 11.

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

Description: Mixture: consisting of the following components.

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%

(Contd. on page 3)

EU

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 2)

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%
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: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1A, H317 EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	<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.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty
Headache
Dizziness
Dizziness
Coughing
Profuse sweating
Nausea
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.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing agents: CO₂, 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

In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
During heating or in case of fire poisonous gases are produced.

(Contd. on page 4)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 3)

· 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

Mount respiratory protective device.
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.
Mount respiratory protective device.

· 6.2 Environmental precautions:

Wear protective equipment. Keep unprotected persons away.
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
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.
Open and handle receptacle with care.
Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· 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.

(Contd. on page 5)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 4)

- 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.
Protect from frost.
Keep container tightly sealed.
- Storage class: 3
- **7.3 Specific end use(s)** No further relevant information available.

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 ³ Air (ARB)
		174.25-182.75 mg/m ³ Air (BEV)
		DNEL (Langzeit-wiederholt)
		10.2 mg/m ³ 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 ³ Air (ARB)
		1.04 mg/m ³ 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 ³ Air (ARB)
		2.5 mg/m ³ 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 ³ Air (ARB)
		2.5 mg/m ³ Air (BEV)

108-31-6 maleic anhydride

Oral	DNEL (Langzeit-wiederholt)	0.06 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	0.04 mg/kg bw/day (ARB)
		DNEL (Langzeit-wiederholt)

(Contd. on page 6)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 5)

Inhalative	DNEL (Kurzzeit-akut)	0.1 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.2 mg/m ³ Air (ARB)
		0.081 mg/m ³ Air (ARB)
		0.08 mg/m ³ Air (BEV)

· 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)

25013-15-4 vinyltoluene

PNEC (wässrig)	17 mg/l (KA)
	0.000319 mg/l (MW)
	0.0000319 mg/l (SW)
	0.00471 mg/kg Trockengew (BO)
PNEC (fest)	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)
	83.1 mg/kg Trockengew (BO)
PNEC (fest)	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)
	35.6 mg/kg Trockengew (BO)
PNEC (fest)	56.5 mg/kg Trockengew (MWS)
	117 mg/kg Trockengew (SWS)

108-31-6 maleic anhydride

PNEC (wässrig)	44.6 mg/l (KA)
	0.0038 mg/l (MW)
	0.038 mg/l (SW)
	0.379 mg/l (WAS)
PNEC (fest)	0.037 mg/kg Trockengew (BO)
	0.0296 mg/kg Trockengew (MWS)
	0.296 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.

(Contd. on page 7)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 6)

· 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.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:
Filter A/P2

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.

· Hand protection

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



Protective gloves

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>).

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 agent recommendation for skin aftercare:

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

Skin protection recommendation for skin cleaning after product handling:

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.

(Contd. on page 8)

Safety data sheet

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


Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 7)

- Penetration time of glove material Value for the permeation: Level ≤ 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)
Butoject (KCL, Art_No. 897, 898)
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

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

- General Information
- Colour: According to product specification
- Odour: Characteristic
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 145.2 °C
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: 1.2 Vol %
- Upper: 8.9 Vol %
- Flash point: 31 °C
- Auto-ignition temperature: 480 °C
- Decomposition temperature: Not determined.
- pH Not determined.
Not applicable
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
Not applicable
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure at 20 °C: 6 hPa
- Density and/or relative density
- Density at 20 °C: 1.92 g/cm³
- Relative density Not determined.
- Vapour density Not determined.

(Contd. on page 9)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 8)

· 9.2 Other information

- Appearance:
- Form: Pasty
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
- Organic solvents: 13.6 %
- Solids content: 64.5 %
- Change in condition
- Evaporation rate Not determined.

· Information with regard to physical hazard classes

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

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 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
Phosphorus compounds

(Contd. on page 10)

EU

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 9)

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	85.6 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 ³ (mouse)
		11,800 mg/m ³ (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)
	LC50/4h	>16,891 mg/m ³ (rat)
Inhalative	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)

108-31-6 maleic anhydride

Oral	LD50	1,090-2,620 mg/kg (rabbit) (OECD 401)
		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)

- | | |
|--|---|
| · <u>Primary irritant effect:</u> | |
| · <u>Skin corrosion/irritation</u> | Causes skin irritation. |
| · <u>Serious eye damage/irritation</u> | Causes serious eye irritation. |
| · <u>Respiratory or skin sensitisation</u> | May cause an allergic skin reaction. |
| · <u>Germ cell mutagenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Carcinogenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Reproductive toxicity</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-single exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-repeated exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>Aspiration hazard</u> | Based on available data, the classification criteria are not met. |

(Contd. on page 11)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 10)

· 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)
	58.75-95.32 mg/l (poecilia reticulata)
LC50/72h	4.9 mg/l (algae)

25013-15-4 vinyltoluene

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 (selenastrum capricornutum)
LC50/96h	5.2-23.4 mg/l (piscis)
	5.2 mg/l (pimephales promelas)

(Contd. on page 12)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 11)

7779-90-0 trizinc bis(orthophosphate)

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)

1314-13-2 zinc oxide

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)

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) (OECD 202)
ErC50/72h	74.35 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
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 (Senastrum 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.

· **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: Harmful to aquatic organisms

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

(Contd. on page 13)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 12)

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

14.4 Packing group

· ADR, IMDG, IATA III

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user

Warning: Flammable liquids.

· Hazard identification number (Kemler code): -

· EMS Number: F-E,S-D

(Contd. on page 14)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 13)

· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	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 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

- 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.

- 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.

(Contd. on page 15)

Safety data sheet

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

Printing date 09.09.2025

Version number 5 (replaces version 4)

Revision: 09.09.2025

Trade name: Multi-Purpose Filler No. 2

(Contd. of page 14)

- National regulations:
 - Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles 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 260.6 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. 150 g/l VOC.
 - **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.

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

- Department issuing SDS: Laboratory
- Date of previous version: 09.01.2024
- Version number of previous version: 4
- 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. 4: Acute toxicity – 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
 - 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