

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30 May 2023

Print date: 23 Apr 2024

Version: 0.3



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REDOCOL 2K-PE-Filling spatula grey incl. Hardener (red)

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

1.1. Product identifier

Trade name/designation:

REDOCOL 2K-PE-Filling spatula grey incl. Hardener (red)

Other means of identification:

FSG 2K-PE-Füllspachtel SR grau
incl. Härter (rot) - styrolreduziert
(neutrale Aufmachung)

Article No.:

25-2-SR-1

UFI:

DA00-C0F3-200X-QSF7

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

Use of the substance/mixture:

Bodyfiller/stopper

Relevant identified uses:

Product Categories [PC]

PC 9b: Fillers, putties, plasters, modelling clay

1.3. Details of the supplier of the safety data sheet

distributor:

Ostermann UK Ltd

Stonebridge Cross Business Park

Unit 104 Pointon Way

WR9 0LW Droitwich

United Kingdom

Telephone: UK +44 (0) 1905 793 550, Ireland +44 (0) 1905 793 552

Telefax: +44 (0) 1905 793 559

E-mail: UK sales.uk@ostermann.eu, Ireland sales.ie@ostermann.eu

Website: www.ostermann.eu

E-mail (competent person): j.bruns@ostermann.eu

1.4. Emergency telephone number

UK: Mr. J. Bruns +44 1905 793 550

IR: Mr. J. Bruns +44 1905 793 552, 24h: +49 30 - 30 68 67 00 (National Poison Inform. Centre Berlin) , UK +44 1905 793 550/ IR +44 (0)1905 793 552 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Reproductive toxicity (<i>Repr. 2</i>)	H361d: Suspected of damaging the unborn child. (reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl]](4-methylphenyl)amino]ethanol)	

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Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure. (reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol)	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Warning

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child. (reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol)
H373	May cause damage to organs through prolonged or repeated exposure. (reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol)

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH208	Contains reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol. May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash Hands that came in contact with the product thoroughly after handling.

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Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/Personal protection.
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Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use Foam to extinguish.

Precautionary statements Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of contents/container to industrial incineration plant..
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Special rules for supplemental label elements for certain mixtures:

Styrene

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 100-42-5 EC No.: 202-851-5 Index No.: 601-026-00-0	styrene Acute Tox. 4 (H332), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Repr. 2 (H361d), STOT RE 1 (H372), Skin Irrit. 2 (H315) Danger	8 - 10 weight-%
CAS No.: 13463-67-7 EC No.: 236-675-5 Index No.: 022-006-00-2 REACH No.: 01-2119489379-17-0000	titanium dioxide Carc. 2 (H351) Warning	5 - 7 weight-%
CAS No.: 25013-15-4 EC No.: 246-562-2	vinyltoluene The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2 - 2.5 weight-%
CAS No.: 141-78-6 EC No.: 205-500-4 Index No.: 607-022-00-5 REACH No.: 01-2119475103-46	ethyl acetate Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	1 - 1.5 weight-%
EC No.: 911-490-9 REACH No.: 01-2119979579-10	Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	0.5 - 1 weight-%
CAS No.: 7779-90-0 EC No.: 231-944-3 Index No.: 030-011-00-6	trizinc bis(orthophosphate) Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning	0.2 - 0.25 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

IF exposed or concerned: Get medical advice/attention. If unconscious but breathing normally, place in recovery position and seek medical advice.

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Following inhalation:

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact:

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Following ingestion:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical advice immediately (poison centre). Do NOT induce vomiting.

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

IF exposed or concerned: Get medical advice/attention.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Jet of water spray; alcohol resistant foam; carbon dioxide (CO₂); extinguishing powder. Class B fire extinguishers.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire: As the product contains combustible, organic constituents, in the case of a fire, dense black smoke is formed, containing dangerous combustion products (see section 10). In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

5.3. Advice for firefighters

Use of respiratory protective equipment. Do not allow run-off from fire-fighting to enter drains or water courses. Cool endangered containers by spraying with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Keep away from sources of ignition - No smoking. Ventilate affected area. Avoid breathing vapours.

6.1.2. For emergency responders

Personal protection equipment:

Use personal protective equipment as required.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Soak up inert absorbent and dispose as waste requiring special attention.

6.4. Reference to other sections

Section 7: Handling and Storage.

Section 8: Exposure Controls/Personal Protection

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid the formation of flammable or explosive solvent vapours in the air and exceed the AGW limit values. Provide earthing of containers, equipment, pumps and ventilation facilities. Take precautionary measures against static discharge.

Measures to prevent aerosol and dust generation:

Avoid breathing dust/mist.

Environmental precautions:

Do not allow to enter into surface water or drains.

Advices on general occupational hygiene

Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed. Never use pressure to empty container. Keep away from sources of ignition - No smoking.

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on storage assembly:

Do not store together with: acidic, alkaline

Storage class (TRGS 510, Germany): 3 - Flammable liquids

Further information on storage conditions:

Portable tanks/vessels.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IE	styrene CAS No.: 100-42-5 EC No.: 202-851-5	① 20 ppm (85 mg/m ³) ② 40 ppm (170 mg/m ³)
WEL (GB)	styrene CAS No.: 100-42-5 EC No.: 202-851-5	① 100 ppm (430 mg/m ³) ② 250 ppm (1,080 mg/m ³)
IE	titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	① 10 mg/m ³ ⑤ (inhalable fraction)
IE	titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	① 4 mg/m ³ ⑤ (respirable fraction)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	① 10 mg/m ³ ⑤ (inhalable fraction)
WEL (GB)	titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	① 4 mg/m ³ ⑤ (respirable fraction)
IE from 5 Dec 2011	vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	① 50 ppm (242 mg/m ³) ② 10 ppm (483 mg/m ³)
IE from 21 Aug 2018	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³) ⑤ IOELV
WEL (GB) from 21 Aug 2018	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³)
IOELV (EU) from 21 Feb 2017	ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
styrene CAS No.: 100-42-5 EC No.: 202-851-5	85 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	100 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	10 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	100 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	100 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	10 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	406 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
styrene CAS No.: 100-42-5 EC No.: 202-851-5	343 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
styrene CAS No.: 100-42-5 EC No.: 202-851-5	0.0077 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	10 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	700 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	5.82 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	1.03 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	1.65 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	0.595 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	0.595 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	367 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	367 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1,468 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	734 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	63 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	73 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	4.5 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	9.8 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	2.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	1.4 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	0.83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	0.83 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	5 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	2.5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	83 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	0.83 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
styrene CAS No.: 100-42-5 EC No.: 202-851-5	40 µg/L	① PNEC aquatic, freshwater
styrene CAS No.: 100-42-5 EC No.: 202-851-5	40 µg/L	① PNEC aquatic, marine water
styrene CAS No.: 100-42-5 EC No.: 202-851-5	5 mg/L	① PNEC sewage treatment plant
styrene CAS No.: 100-42-5 EC No.: 202-851-5	0.614 mg/kg	① PNEC sediment, freshwater

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styrene CAS No.: 100-42-5 EC No.: 202-851-5	0.418 mg/kg	① PNEC sediment, marine water
styrene CAS No.: 100-42-5 EC No.: 202-851-5	0.2 mg/kg	① PNEC soil
styrene CAS No.: 100-42-5 EC No.: 202-851-5	40 µg/L	① PNEC aquatic, intermittent release
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	0.127 mg/L	① PNEC aquatic, freshwater
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	1 mg/L	① PNEC aquatic, marine water
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	100 mg/L	① PNEC sewage treatment plant
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	1,000 mg/kg	① PNEC sediment, freshwater
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	100 mg/kg	① PNEC sediment, marine water
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	1,667 mg/kg	① PNEC secondary poisoning
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	0.61 mg/L	① PNEC aquatic, intermittent release
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5	100 mg/kg	① PNEC soil, freshwater
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	0.319 µg/L	① PNEC aquatic, freshwater
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	0.0319 µg/L	① PNEC aquatic, marine water
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	5.92 mg/L	① PNEC sewage treatment plant
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	32,000 mg/kg	① PNEC sediment, freshwater
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	3,200 mg/kg	① PNEC sediment, marine water
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	0.00621 mg/kg	① PNEC soil
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2	0.00319 µg/L	① PNEC aquatic, intermittent release
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	240 µg/L	① PNEC aquatic, freshwater
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	24 µg/L	① PNEC aquatic, marine water

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ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	6,520 mg/L	① PNEC sewage treatment plant
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1.15 mg/kg	① PNEC sediment, freshwater
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.115 mg/kg	① PNEC sediment, marine water
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	0.148 mg/kg	① PNEC soil
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	200 mg/kg	① PNEC secondary poisoning
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4	1.65 mg/L	① PNEC aquatic, intermittent release
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	48 µg/L	① PNEC aquatic, freshwater
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	4.8 µg/L	① PNEC aquatic, marine water
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	10 mg/L	① PNEC sewage treatment plant
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	1.2 mg/kg	① PNEC sediment, freshwater
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	0.12 mg/kg	① PNEC sediment, marine water
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	0.21 mg/kg	① PNEC soil
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9	480 µg/L	① PNEC aquatic, intermittent release
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	20.6 µg/L	① PNEC aquatic, freshwater
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	6.1 µg/L	① PNEC aquatic, marine water

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Substance name	PNEC Value	① PNEC type
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	100 µg/L	① PNEC sewage treatment plant
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	117.8 mg/kg	① PNEC sediment, freshwater
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	56.5 mg/kg	① PNEC sediment, marine water
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	35.6 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. [In case of inadequate ventilation] wear respiratory protection.

8.2.2. Personal protection equipment

Eye/face protection:

In splash contact: Eye/face protection

Skin protection:

Repeated exposure may cause skin dryness or cracking. Suitable gloves type: NBR (Nitrile rubber). Thickness of the glove material > 0,4 mm, Permeation time (maximum wear duration): >480 min. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use protective skin cream before handling the product.

Respiratory protection:

Respiratory protection necessary at: > Occupational exposure limit values. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures:

Body protection: Natural fibres (e.g. cotton) heat-resistant synthetic fibres.

8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: white

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	-84 °C		① Ethyl acetate ② MSDS Distributor
Freezing point	No data available		
Initial boiling point and boiling range	77 °C		① Ethyl acetate ② MSDS Distributor
Decomposition temperature	No data available		

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Parameter	Value	at °C	① Method ② Remark
Flash point	34 °C		① Method: EN ISO 1523 ② MSDS Distributor
Evaporation rate	No data available		
Auto-ignition temperature	490 °C		① Styrene ② MSDS Distributor
Upper/lower flammability or explosive limits	1 - 7.7 Vol-%		① Styrene ② MSDS Distributor
Vapour pressure	714 mbar	20 °C	① Styrene ② MSDS Distributor
Vapour density	No data available		
Density	1.9 g/cm ³	20 °C	① Method: DIN 53217 ② MSDS Distributor
Bulk density	No data available		
Water solubility	practically insoluble	20 °C	② MSDS Distributor
Partition coefficient: n-octanol/water	0.68		
Kinematic viscosity	> 20.5 mm ² /s	20 °C	② MSDS Distributor
Solid content	86 weight-%		
Solvent content	14 weight-%		

particle characteristics:

No data available

9.2. Other information

Solid content (%): 87% weight-%. Solvent content: 1 weight-%, Water: 0 weight-%.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Strong acid, strong base, Oxidising agent, strong.

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

May form hazardous decomposition products when exposed to high temperatures. Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

styrene CAS No.: 100-42-5 EC No.: 202-851-5

LD₅₀ oral: 2,650 mg/kg (Rat) Science Reports of the Research Institutes, Tohoku University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989.

LC₅₀ Acute inhalation toxicity (vapour): 12 mg/L 4 h (Rat) Archives of Environmental Health. Vol. 18, Pg. 878, 1969.

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titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5

LD₅₀ oral: >2,000 - 25,000 mg/kg (Rat) OECD 425

LD₅₀ dermal: >5,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (dust/mist): 3.43 - 6.82 mg/L 4 h (Rat) ECHA

vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2

LD₅₀ oral: 2,321.58 mg/kg (Rat)

LD₅₀ dermal: 5 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (gas): 1,510 ppmV 6 h (Rat)

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

LD₅₀ oral: 5,620 mg/kg (Rat)

LD₅₀ dermal: >20,000 mg/kg (Rabbit)

trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3

LD₅₀ oral: 5,000 mg/kg (Rat)

Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9

LD₅₀ oral: 619 mg/kg (Rat)

LD₅₀ dermal: 2,000 mg/kg (Rat)

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Germ cell mutagenicity:

May damage the unborn child.

Carcinogenicity:

May damage the unborn child.

Reproductive toxicity:

May damage the unborn child.

STOT-repeated exposure:

auditory organs

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

styrene CAS No.: 100-42-5 EC No.: 202-851-5

LC₅₀: 4.02 - 74.8 mg/L 4 d (fish, *Oncorhynchus mykiss* (Rainbow trout)) Pickering, Q.H., and C. Henderson 1966. Acute Toxicity of Some Important Petrochemicals to Fish. *J. Water Pollut. Control Fed.* 38(9):1419-1429

LC₅₀: 23 - 59 mg/L 2 d (crustaceans, *Daphnia magna* (Big water flea)) LeBlanc, G.A. 1980. Acute Toxicity of Priority Pollutants to Water Flea (*Daphnia magna*). *Bull. Environ. Contam. Toxicol.* 24(5):684-691 (OECDG Data File); Qureshi, A.A., K.W. Flood, S.R. Thompson, S.M. Janhurst, C.S. Inniss, and D.A. Rokosh 1982. Compariso

EC₅₀: 4.7 - 4.7 mg/L 2 d (crustaceans, *Daphnia magna* (Big water flea)) Cushman, J.R., G.A. Rausina, G. Cruzan, J. Gilbert, E. Williams, M.C. Harrass, J.V. Sousa, A.E. Putt, N.A. Garvey, J.P. 1997. Ecotoxicity Hazard Assessment of Styrene. *Ecotoxicol. Environ. Saf.* 37:173-180

EC₅₀: 1.4 - 1.4 mg/L 3 d (Algae/water plant) Cushman, J.R., G.A. Rausina, G. Cruzan, J. Gilbert, E. Williams, M.C. Harrass, J.V. Sousa, A.E. Putt, N.A. Garvey, J.P. 1997. Ecotoxicity Hazard Assessment of Styrene. *Ecotoxicol. Environ. Saf.* 37:173-180

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titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5
LC₅₀ : >0.87 - 1.1 mg/L 4 d (fish, Pimephales promelas) ECHA
LC₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna) ECHA
EC₅₀ : 100 mg/L 3 d (Algae/water plant, Pseudokirchnerella subcapitata) ECHA
NOEC : ≥100 mg/L -∞ h (crustaceans, Hyalella azteca) ECHA
NOEC : 0.87 - 1.1 mg/L 12 d (fish) ECHA
NOEC : 0.004 - 0.08 mg/L 28 d (fish) ECHA
NOEC : 100 mg/L 3 d (Algae/water plant) ECHA
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2
LC₅₀ : 5.2 - 8.14 mg/L 4 d (fish)
NOEC : 2.6 mg/L 4 d (fish)
EC₅₀ : 1.3 mg/L 2 d (crustaceans)
NOEC : 0.81 mg/L 2 d (crustaceans)
EC₅₀ : 0.319 - 4.3 mg/L 4 d (Algae/water plant)
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4
LC₅₀ : 212 - 484 mg/L 4 d (fish)
LC₅₀ : 154 - 1,600 mg/L 2 d (crustaceans)
EC₅₀ : 2,500 - 2,500 mg/L 4 d (Algae/water plant)
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3
LC₅₀ : 0.112 - 2.92 mg/L (fish)
EC₅₀ : 0.155 - 2.909 mg/L (crustaceans)
NOEC : 0.02 mg/L 4 d (Algae/water plant)
NOEC : 0.06 mg/L 3 d (Algae/water plant)
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9
LC₅₀ : 100 mg/L 4 d (fish)
EC₅₀ : 48 mg/L 2 d (crustaceans)
EC₅₀ : 100 mg/L 3 d (Algae/water plant)

12.2. Persistence and degradability

styrene CAS No.: 100-42-5 EC No.: 202-851-5
Biodegradation : Yes, slowly
Remark : No indication of bioaccumulation potential.
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5
Biodegradation : Yes, slowly
Remark : This pigment is an inorganic substance. Due to its very low solubility in water and its internal character, the substance is not considered bioavailable to sediment and terrestrial organisms.
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2
Biodegradation : Poorly biodegradable.
ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4
Biodegradation : Yes, rapidly
Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9
Biodegradation : Poorly biodegradable.

12.3. Bioaccumulative potential

styrene CAS No.: 100-42-5 EC No.: 202-851-5
Log K_{OW} : 2.96
vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2
Log K_{OW} : 3.44

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ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Log K_{ow}: 0.73

Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9

Log K_{ow}: 2

Partition coefficient: n-octanol/water:

0.68

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

styrene CAS No.: 100-42-5 EC No.: 202-851-5

Results of PBT and vPvB assessment: —

titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5

Results of PBT and vPvB assessment: —

vinyltoluene CAS No.: 25013-15-4 EC No.: 246-562-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

ethyl acetate CAS No.: 141-78-6 EC No.: 205-500-4

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Reaction mass of 2,2'-[(4-Methylphenyl)imino]bisethanol und 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol EC No.: 911-490-9

Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11 * Waste paint and varnish containing organic solvents or other dangerous substances

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 3 Flammable

Waste code packaging

15 01 04 metallic packaging

Directive 2008/98/EC (Waste Framework Directive)

HP 3 Flammable

Waste treatment options

Appropriate disposal / Product:

to local disposal.

Appropriate disposal / Package:

to local disposal

Other disposal recommendations:

Return to Distributor..

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3269	UN 3269	UN 3269	UN 3269
14.2. UN proper shipping name			
POLYESTER RESIN KIT (POLYESTER RESIN KIT, liquid base material)	POLYESTER RESIN KIT (POLYESTER RESIN KIT, liquid base material)	POLYESTER RESIN KIT (POLYESTER RESIN KIT, liquid base material)	POLYESTER RESIN KIT (POLYESTER RESIN KIT, liquid base material)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
No data available	No data available	No data available	No data available
14.6. Special precautions for user			
Classification code: -	No data available	EmS-No.: F-E, S-E	No data available
Tunnel restriction code: (D/E)			

14.7. Maritime transport in bulk according to IMO instruments
not determined

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU):

Hazard categories:

- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

VOC-Produktkategorie: (Cat. B/b) ; VOC-Grenzwert: 250 g/l

Maximaler VOC-Gehalt des gebrauchsfertigen Produkts (g/L): 250

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

16.1.	Indication of changes
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16.2. Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

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ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Threshold Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Reproductive toxicity (<i>Repr. 2</i>)	H361d: Suspected of damaging the unborn child. (reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol)	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-Hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol)	

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Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

The information provided in this safety data sheet is correct to the best of our knowledge at the time of going to press. This information is intended to provide guidance for the safe handling, storage, processing, transport and disposal of the product mentioned in this safety data sheet. The information is not transferable to other products. If the product is mixed with other materials, mixed or processed, or subjected to processing, the data contained in this safety data sheet can not be transferred to the new material thus produced unless otherwise expressly stated otherwise.

* Data changed compared with the previous version.