

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

JANSEN

Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 1 / 11

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

1.1. Product identifier

Article No. (manufacturer/supplier): 25-2-SR
Trade name/designation 2K-PE-Füllspachtel SR
grau
matt

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

Relevant identified uses:

Putty

Uses advised against:

Aware of any other information

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

P.A. Jansen GmbH u. Co., KG

Hochstadenstraße 22

D-53474 Bad Neuenahr-Ahrweiler

Telephone: +49 2641 3897-0

Telefax: +49 2641 3897-28

Homepage: www.jansen.de

Department responsible for information:

laboratory

E-mail (competent person)

sicherheitsdatenblatt@jansen.de

1.4. Emergency telephone number

Emergency telephone number

+49 2641 3897-51

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]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226

Flammable liquids

Flammable liquid and vapour.

Skin Irrit. 2 / H315

Skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

Repr. 2 / H361d

Reproductive toxicity

Suspected of damaging the unborn child.

STOT RE 2 / H373

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

Harmful to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Warning

Hazard statements

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H361d

Suspected of damaging the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260

Do not breathe aerosol.

P264

Wash hands thoroughly after handling.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 2 / 11

P280 Wear protective gloves and eye/face protection.
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 extinguishing powder or sand to extinguish.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

Styrene

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.

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description 2K-Polyester putty

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

| EC No. CAS No. Index No. | REACH No. Designation classification: // Remark | weight-% |
|--|---|--------------------|
| 202-851-5 100-42-5 601-026-00-0 | 01-2119457861-32 Styrene Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Repr. 2 H361d / STOT SE 3 H335 / STOT RE 1 H372 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 3 H226 | 8 - 10 |
| 246-562-2 25013-15-4 | 01-2119622074-50 Vinyltoluene Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226 | 2 - 2,5 |
| 205-500-4 141-78-6 607-022-00-5 911-490-9 | 01-2119475103-46 Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 01-2119979579-10 Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] ethanol Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412 | 1 - 1,5 0,5 - 1 |
| 231-944-3 7779-90-0 030-011-00-6 | 01-2119485044-40 Trizinc bis(orthophosphate) Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 1) | 0,2 - 0,25 |

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. 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. Seek

Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 3 / 11

medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 4 / 11

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Styrene

Index No. 601-026-00-0 / EC No. 202-851-5 / CAS No. 100-42-5

WEL, TWA: 430 mg/m³; 100 ppm

WEL, STEL: 1080 mg/m³; 250 ppm

Titanium dioxide

EC No. 236-675-5 / CAS No. 13463-67-7

WEL, TWA: 4 mg/m³

Remark: (respirable fraction)

WEL, TWA: 10 mg/m³

Remark: (inhalable fraction)

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

WEL, TWA: 734 mg/m³; 200 ppm

WEL, STEL: 1468 mg/m³; 400 ppm

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL long-term dermal (systemic), Workers: 63 mg/kg

DNEL acute inhalative (local), Workers: 1468 mg/m³

DNEL acute inhalative (systemic), Workers: 1468 mg/m³

DNEL long-term inhalative (local), Workers: 734 mg/m³

DNEL long-term inhalative (systemic), Workers: 734 mg/m³

DNEL long-term oral (repeated), Consumer: 4,5 mg/kg

DNEL long-term dermal (systemic), Consumer: 37 mg/kg

DNEL acute inhalative (local), Consumer: 734 mg/m³

DNEL acute inhalative (systemic), Consumer: 734 mg/m³

DNEL long-term inhalative (local), Consumer: 367 mg/m³

DNEL long-term inhalative (systemic), Consumer: 367 mg/m³

Trizinc bis(orthophosphate)

Index No. 030-011-00-6 / EC No. 231-944-3 / CAS No. 7779-90-0

DNEL long-term dermal (systemic), Workers: 83 mg/kg

DNEL long-term inhalative (systemic), Workers: 5 mg/m³

DNEL long-term oral (repeated), Consumer: 0,83 mg/kg

DNEL long-term dermal (systemic), Consumer: 83 mg/kg

DNEL long-term inhalative (systemic), Consumer: 2,5 mg/m³

Titanium dioxide

EC No. 236-675-5 / CAS No. 13463-67-7

DNEL long-term inhalative (local), Workers: 10 mg/m³

DNEL long-term oral (repeated), Consumer: 700 mg/kg

PNEC:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 5 / 11

PNEC aquatic, freshwater: 0,24 mg/L
PNEC aquatic, marine water: 0,024 mg/L
PNEC aquatic, intermittent release: 1,65 mg/L
PNEC sediment, freshwater: 1,15 mg/kg
PNEC sediment, marine water: 0,115 mg/kg
PNEC, soil: 0,148 mg/kg
PNEC sewage treatment plant (STP): 650 mg/L
PNEC Secondary Poisoning: 200 mg/kg

Trizinc bis(orthophosphate)

Index No. 030-011-00-6 / EC No. 231-944-3 / CAS No. 7779-90-0

PNEC aquatic, freshwater: 20,6 µg/L
PNEC aquatic, marine water: 6,1 µg/L
PNEC sediment, freshwater: 117,8 mg/kg
PNEC sediment, marine water: 56,5 mg/kg
PNEC, soil: 35,6 mg/kg
PNEC sewage treatment plant (STP): 100 µg/L

Titanium dioxide

EC No. 236-675-5 / CAS No. 13463-67-7

PNEC aquatic, freshwater: 0,184 mg/L
PNEC aquatic, marine water: 0,0184 mg/L
PNEC aquatic, intermittent release: 0,193 mg/L
PNEC sediment, freshwater: 1000 mg/kg
PNEC sediment, marine water: 100 mg/kg
PNEC, soil: 100 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear-time limits as specified by the manufacturer. Recommended respiratory protection articles : Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: solid

Appearance: solid

Colour: white

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 25-2-SR
Print date 19.03.2021
Version 13.67

2K-PE-Füllspachtel SR
Revision date 21.10.2020
Issue date 21.10.2020

EN
Page 6 / 11

| | |
|--|---|
| Odour: | characteristic |
| Odour threshold: | No data available |
| pH at 20 °C: | No data available |
| Melting point/freezing point: | -84 °C Source: Ethyl acetate |
| Initial boiling point and boiling range: | 77 °C Source: Ethyl acetate |
| Flash point: | 34 °C Method: EN ISO 1523 |
| Evaporation rate: | No data available |
| flammability | |
| Burning time: | No data available |
| Upper/lower flammability or explosive limits: | |
| Lower explosion limit: | 1 Vol-% Method: literature value Source: Styrene |
| Upper explosion limit: | 7,7 Vol-% Method: literature value Source: Styrene |
| Vapour pressure at 20 °C: | 714 mbar Source: Styrene |
| Vapour density: | No data available |
| Relative density: | |
| Density at 20 °C: | 1,90 g/cm³ Method: DIN 53217 |
| Solubility(ies): | |
| Water solubility at 20 °C: | insoluble |
| Partition coefficient: n-octanol/water: | see section 12 |
| Auto-ignition temperature: | 490 °C Source: Styrene |
| Decomposition temperature: | No data available |
| Viscosity at 2 °C: | > 99000 mPa*s |
| Kinematic viscosity at 20 °C:: | > 20,5 mm²/s |
| Explosive properties: | No data available |
| Oxidising properties: | No data available |
| 9.2. Other information | |
| Solid content: | 86 weight-% |
| solvent content: | |
| Organic solvents: | 14 weight-% |
| Water: | 0 weight-% |

*

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 7 / 11

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

No data on preparation itself available.

11.1. Information on toxicological effects

*

Acute toxicity

Styrene

oral, LD50, Rat: 5000 mg/kg
dermal, LD50, Rat: > 2000 mg/kg
inhalative (vapours), LC50, Rat: 11,8 mg/L (4 h)

Ethyl acetate

oral, LD50, Rat: 4934 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (vapours), LC50, Rat: 29,3 mg/L (4 h)

Trizinc bis(orthophosphate)

oral, LD50, Rat: > 5000 mg/kg
inhalative (dust and mist), LC50, Rat: > 5,7 mg/L (4 h)

Titanium dioxide

oral, LD50, Rat: > 5000 mg/kg
Method: OECD 425
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (dust and mist), LC50, Rat: 3,43 - 5,09 mg/L (4 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

Ethyl acetate

eyes
irritant.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of damaging the unborn child.

STOT-single exposure; STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Ethyl acetate

Specific target organ toxicity (single exposure), drowsiness

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 8 / 11

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

Styrene

Fish toxicity, LC50, Pimephales promelas: 10 mg/L (96 h)

Ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 165 mg/L (48 h)

Bacteria toxicity, EC10, Pseudomonas putida: 2900 mg/L (16 h)

Algae toxicity, EC50, Desmodesmus subspicatus: 5600 mg/L (72 h)

Trizinc bis(orthophosphate)

Daphnia toxicity, EC50: 2,44 mg/L (48 h)

Algae toxicity, ErC50, Selenastrum capricornutum: 0,8 mg/L (72 h)

Titanium dioxide

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)

Daphnia toxicity, LC50, Daphnia magna: > 100 mg/L (48 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 16 mg/L (72 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

Ethyl acetate

Fish toxicity, NOEC, Pimephales promelas (fathead minnow): > 9,65 mg/L (32 d)

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2,4 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Desmodesmus subspicatus: > 100 mg/L (72 h)

Method: OECD 201

12.2. Persistence and degradability

Ethyl acetate

Biodegradation: > 70 % (20 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301D / EEC 92/69 annex V, C.4-E

12.3. Bioaccumulative potential

Ethyl acetate

Partition coefficient: n-octanol/water: 0,68

Bioconcentration factor (BCF)

Ethyl acetate

Bioconcentration factor (BCF): 30

Titanium dioxide

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

12.4. Mobility in soil

Toxicological data are not available.

12.5. 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. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

**Appropriate disposal / Product
Recommendation**

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 9 / 11

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number

UN 3269

14.2. UN proper shipping name

Land transport (ADR/RID):

Polyester resin kit liquid base material

Sea transport (IMDG):

POLYESTER RESIN KIT liquid base material

Air transport (ICAO-TI / IATA-DGR):

Polyester resin kit liquid base material

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID)

No data available

Marine pollutant

No data available

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code

D/E

Sea transport (IMDG)

EmS-No.

F-E, S-E

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Category: P5c FLAMMABLE LIQUIDS

Quantity 1: 5000 t / Quantity 2: 50000 t

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC product category: (Cat. B/b) ; VOC limit value: 250 g/l

Maximum VOC content (g/L) of the product in a ready to use condition: 250

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

| EC No. | Designation | REACH No. |
|---------|-------------|-----------|
| CAS No. | | |

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



| | | | |
|--------------|------------|--------------------------|--------------|
| Article No.: | 25-2-SR | 2K-PE-Füllspachtel SR | |
| Print date | 19.03.2021 | Revision date 21.10.2020 | EN |
| Version | 13.67 | Issue date 21.10.2020 | Page 10 / 11 |

| | | |
|-------------------------|--|------------------|
| 202-851-5 100-42-5 | Styrene | 01-2119457861-32 |
| 246-562-2 25013-15-4 | Vinyltoluene | 01-2119622074-50 |
| 205-500-4 141-78-6 | Ethyl acetate | 01-2119475103-46 |
| 911-490-9 | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] ethanol | 01-2119979579-10 |
| 231-944-3 7779-90-0 | Trizinc bis(orthophosphate) | 01-2119485044-40 |

SECTION 16: Other information *

Full text of classification in section 3:

| | | |
|--------------------------|--------------------------------------|---|
| Acute Tox. 4 / H332 | Acute toxicity (inhalative) | Harmful if inhaled. |
| Skin Irrit. 2 / H315 | Skin corrosion/irritation | Causes skin irritation. |
| Eye Irrit. 2 / H319 | Serious eye damage/eye irritation | Causes serious eye irritation. |
| Repr. 2 / H361d | Reproductive toxicity | Suspected of damaging the unborn child. |
| STOT SE 3 / H335 | STOT-single exposure | May cause respiratory irritation. |
| STOT RE 1 / H372 | STOT-repeated exposure | Causes damage to the hearing organs through prolonged or repeated exposure. |
| Asp. Tox. 1 / H304 | Aspiration hazard | May be fatal if swallowed and enters airways. |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects. |
| Flam. Liq. 3 / H226 | Flammable liquids | Flammable liquid and vapour. |
| Flam. Liq. 2 / H225 | Flammable liquids | Highly flammable liquid and vapour. |
| STOT SE 3 / H336 | STOT-single exposure | May cause drowsiness or dizziness. |
| Acute Tox. 4 / H302 | Acute toxicity (oral) | Harmful if swallowed. |
| Eye Dam. 1 / H318 | Serious eye damage/eye irritation | Causes serious eye damage. |
| Skin Sens. 1 / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Aquatic Acute 1 / H400 | Hazardous to the aquatic environment | Very toxic to aquatic organisms. |
| Aquatic Chronic 1 / H410 | Hazardous to the aquatic environment | Very toxic to aquatic life with long lasting effects. |

Classification procedure

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

| | | |
|-------------------|--------------------------------------|------------------------|
| Flam. Liq. 3 | Flammable liquids | On basis of test data. |
| Skin Irrit. 2 | Skin corrosion/irritation | Calculation method. |
| Eye Irrit. 2 | Serious eye damage/eye irritation | Calculation method. |
| Repr. 2 | Reproductive toxicity | Calculation method. |
| STOT RE 2 | STOT-repeated exposure | Calculation method. |
| Aquatic Chronic 3 | Hazardous to the aquatic environment | Calculation method. |

Abbreviations and acronyms

| | |
|-----------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| OEL | Occupational Exposure Limit Value |
| BLV | Biological Limit Value |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic and Reprotoxic |
| DIN | German Institute for Standardization / German industrial standard |
| DNEL | Derived No-Effect Level |
| EAKV | European Waste Catalogue Directive |
| EC | Effective Concentration |
| EC | European Community |
| EN | European Standard |
| IATA-DGR | International Air Transport Association – Dangerous Goods Regulations |
| IBC Code | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO-TI | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods |
| ISO | International Organization for Standardization |
| LC | Lethal Concentration |
| LD | Lethal Dose |

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 25-2-SR 2K-PE-Füllspachtel SR
Print date 19.03.2021 Revision date 21.10.2020
Version 13.67 Issue date 21.10.2020

EN
Page 11 / 11

| | |
|--------|---|
| MARPOL | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | persistent, bioaccumulative, toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| UN | United Nations |
| VOC | Volatile Organic Compounds |
| vPvB | very persistent and very bioaccumulative |

Data sources:

Data arise from reference works and literature.

Further information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version