

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 1 of 9

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

1.1. Product identifier

KÖSTER Joint Sealant FS-H grey A

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

Use of the substance/mixture

Adhesives, sealants

Uses advised against

No identified use(s).

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|------------------------------|---------------------------|
| Company name: | KÖSTER BAUCHEMIE AG | |
| Street: | Dieselstrasse 1 - 10 | |
| Place: | D-26607 Aurich | |
| Telephone: | +49-4941-9709-0 | Telefax: +49-4941-9709-40 |
| e-mail: | info@koester.eu | |
| Contact person: | Forschung & Entwicklung | |
| e-mail: | produktsicherheit@koester.eu | |
| Internet: | www.koester.eu | |

1.4. Emergency telephone number:

+49-551-19240 (24 h, Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Pictograms:



Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Additional advice on labelling

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 2 of 9

3.2. Mixtures

Chemical characterization

Adhesives, sealants

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|------------------------------------|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 68611-50-7 | Polysulfide Polymer | | | 40 - < 60 % |
| | Aquatic Chronic 3; H412 | | | |
| 27138-31-4 | Oxydipropyl dibenzoate | | | < 5 % |
| | 248-258-5 | | 01-2119529241-49 | |
| | Aquatic Chronic 3; H412 | | | |
| 13463-67-7 | titanium dioxide | | | 5 - < 10 % |
| | 236-675-5 | 022-006-00-2 | | |
| | Carc. 2; H351 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 68611-50-7 | | Polysulfide Polymer | 40 - < 60 % |
| | | dermal: LD50 = > 7000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 27138-31-4 | 248-258-5 | Oxydipropyl dibenzoate | < 5 % |
| | | inhalation: LC50 = 200 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3914 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Wear chemical resistant suit. Wear suitable gloves. Move victim out of danger zone.

After inhalation

Provide fresh air. Medical treatment necessary. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

Wash with plenty of water. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary. Do NOT induce vomiting.

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

No known symptoms to date.

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

Treat symptomatically.

SECTION 5: Firefighting measures

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 3 of 9

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Dry extinguishing powder. Foam. Carbon dioxide (CO₂). Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide Sulphur oxides. Hydrogen chloride (HCl). Metal oxide smoke, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not inhale explosion and combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Move victim out of danger zone.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation, wear suitable respiratory equipment. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Wear suitable protective clothing and gloves.

Advice on protection against fire and explosion

No special technical protective measures are necessary.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Further information on handling

Keep only in the original container in a cool, well-ventilated place. Wear suitable gloves.

7.2. Conditions for safe storage, including any incompatibilities

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 4 of 9

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep/Store only in original container. Keep in a cool place.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Do not store together with: Oxidising solids. Oxidising liquids.

Further information on storage conditions

Keep in a cool place. Protect from sunlight.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|------------------------------|-----|-------------------|-----------|-----------|--------|
| 13463-67-7 | Titanium dioxide, respirable | - | 4 | | TWA (8 h) | WEL |

8.2. Exposure controls

Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Suitable material: NBR (Nitrile rubber). Butyl rubber. Breakthrough times and swelling properties of the material must be taken into consideration. Check leak tightness/impermeability prior to use.

Skin protection

Chemical resistant suit. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Respiratory protection necessary at: insufficient ventilation. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--------|----------------|
| Physical state: | Paste | |
| Colour: | grey | |
| Odour: | rotten | |
| Boiling point or initial boiling point and boiling range: | | not determined |
| Flash point: | | > 100 °C |
| pH-Value: | | not determined |
| Water solubility: | | not determined |
| Vapour pressure: | | not determined |

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 5 of 9

Density (at 23 °C): 1,65 g/cm³

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

not explosive.

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent content:

0

Sublimation point:

not determined

Viscosity / dynamic:

not determined

(at 23 °C)

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep cool. Protect from sunlight. Protect from sunlight.

10.5. Incompatible materials

No risks worthy of mention.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide Sulphur oxides. Hydrogen chloride (HCl). Metal oxide smoke, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

No information available.

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 6 of 9

| CAS No | Chemical name | | | | |
|------------|----------------------------|-------------------|---------|---------------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 68611-50-7 | Polysulfide Polymer | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | external MSDS | |
| | dermal | LD50 > 7000 mg/kg | Rat | external MSDS | |
| 27138-31-4 | Oxydipropyl dibenzoate | | | | |
| | oral | LD50 3914 mg/kg | Rat | ECHA | |
| | dermal | LD50 > 2000 mg/kg | Rat | ECHA | |
| | inhalation (4 h) dust/mist | LC50 200 mg/l | Rat | ECHA | |

Irritation and corrosivity

May cause respiratory irritation. Irritating to respiratory system and skin.

Information on likely routes of exposure

ingestion.

Specific effects in experiment on an animal

No information available.

Additional information on tests

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No | Chemical name | | | | | |
|------------|--------------------------|-------------------|-----------|---------------------------------|---------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 68611-50-7 | Polysulfide Polymer | | | | | |
| | Acute fish toxicity | LC50 > 1000 mg/l | 96 h | | external MSDS | |
| | Acute crustacea toxicity | EC50 20 mg/l | 48 h | Daphnia magna | external MSDS | |
| 27138-31-4 | Oxydipropyl dibenzoate | | | | | |
| | Acute fish toxicity | LC50 > 100 mg/l | 96 h | Alburnus alburnus | ECHA | |
| | Acute algae toxicity | ErC50 > 3,2 mg/l | 96 h | Pseudokirchneriella subcapitata | ECHA | |
| | Acute crustacea toxicity | EC50 0,0059 mg/l | 48 h | Daphnia magna | ECHA | |
| | Fish toxicity | NOEC > 0,125 mg/l | 14 d | Alburnus alburnus | ECHA | |
| | Crustacea toxicity | NOEC 0,01 mg/l | 21 d | Daphnia magna | ECHA | |

12.2. Persistence and degradability

Product is not easily biodegradable.

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 7 of 9

| CAS No | Chemical name | | | |
|------------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 27138-31-4 | Oxydipropyl dibenzoate | | | |
| | Evolution | 78 % | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|------------------------|---------|
| 27138-31-4 | Oxydipropyl dibenzoate | 3,9 |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

No information available.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 8 of 9

substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Section 12: Ecological Information (non-mandatory)

14.6. Special precautions for user

- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 75

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

Safety Data Sheet

according to UK REACH Regulation

KÖSTER Joint Sealant FS-H grey A

Revision date: 11.10.2022

Product code: J_234_A

Page 9 of 9

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,9,14.

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H351 | Suspected of causing cancer. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH212 | Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)