



EVT Fire Rated HPFR

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

1.1. Product identifier

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Product group: Zulieferprodukt

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

Barrier (Sealant)

1.3. Details of the supplier of the safety data sheet

Company name: FS-BF GmbH & Co. KG
 Division EVT Sealants

Street: Hahnenseifener Straße 15
 Place: D-51580 Reichshof-Hahn

Telephone: +49 (0) 2297 - 9103-0
 e-mail: info@fsbf.com

Telefax: +49 (0) 2297 1826

1.4. Emergency telephone number: 0044 (0) 797979 1298

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture**GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**GB CLP Regulation****Precautionary statements**

P102 Keep out of reach of children.

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures**Hazardous components**

| CAS No | Chemical name | Quantity |
|------------|--|------------------|
| | EC No | Index No |
| | REACH No | |
| | GHS Classification | |
| 37859-55-5 | 2-Pentanone O,O',O''-(methylsilylidyn)trioxime | 1 - 4 % |
| | 484-460-1 | 01-2120004323-76 |
| | Acute Tox. 4, Eye Irrit. 2; H302 H319 | |

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



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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 37859-55-5 | 484-460-1 | 2-Pentanone O,O',O''-(methylsilylidyn)trioxime | 1 - 4 % |
| | | oral: ATE = 500 mg/kg | |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

After curing, product is odourless and indifferent.

After inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a doctor if you feel unwell.

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

When in doubt or if symptoms are observed, get medical advice.

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

not applicable

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Extinguishing powder. Water spray jet. Foam. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products.

5.3. Advice for firefighters

Use suitable breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Personal protection equipment: see section 8

For non-emergency personnel

No special measures are necessary.

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically. After curing, product can be disposed of with domestic or commercial waste. Non-cured material has to be handled as special waste.

For cleaning up

Clean with a cloth immediately. After curing, the product can be removed in most cases only mechanically.

Other information

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

Safe handling: see section 7

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ensure sufficient ventilation.

Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep/Store only in original container. Ensure adequate ventilation of the storage area. Avoid high temperatures or direct sunlight.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Eye glasses with side protection

Hand protection

Recommended glove material: E.g. butyl gloves, nitrile gloves

Recommended glove thickness: > 0,4 mm

Permeation time (maximum wear duration): > 1 h.

Skin protection

Protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary.

Thermal hazards

not applicable



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|----------------|
| Physical state: | Paste |
| Colour: | various |
| Odour: | characteristic |
| Odour threshold: | not determined |

Test method**Changes in the physical state**

| | |
|---|--|
| Melting point/freezing point: | not applicable |
| Boiling point or initial boiling point and boiling range: | not applicable |
| Sublimation point: | not applicable |
| Softening point: | not determined |
| Flash point: | > 150 °C DIN ISO 2592 |
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not determined |
| pH-Value: | not applicable |
| Viscosity / dynamic: | not determined |
| Viscosity / kinematic: (at 40 °C) | > 1000 mm ² /s ISO 3219 |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density: | ca. 1,4 g/cm ³ |

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion: No data available

Other safety characteristicsSolvent content: VOC: < 30 g/l (2004/42 EG)
VOC (CH): < 30 g/kg**Further Information**

not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability



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Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

May form hazardous decomposition products when exposed to high temperatures.

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight. Protect from moisture.

10.5. Incompatible materials

Acid. Oxidising agent, strong. Reducing agent, strong. Water.

10.6. Hazardous decomposition products

Hazardous combustion products

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

| CAS No | Chemical name | | | | |
|------------|--|--------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 37859-55-5 | 2-Pentanone O,O',O''-(methylsilylidyn)trioxime | | | | |
| | oral | ATE mg/kg | 500 | | |

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards**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.

Other information

No data available

SECTION 12: Ecological information**12.1. Toxicity**



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| CAS No | Chemical name | | | | | |
|------------|--|----------------|-----------|---------------------------------|----------|-------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 37859-55-5 | 2-Pentanone O,O',O''-(methylsilylidyn)trioxime | | | | | |
| | Acute fish toxicity | LC50 >113 mg/l | 96 h | Oncorhynchus mykiss | OECD 203 | read-across |
| | Acute algae toxicity | ErC50 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD 201 | read-across |
| | Acute crustacea toxicity | EC50 >113 mg/l | 48 h | Daphnia magna | OECD 202 | read-across |

12.2. Persistence and degradability

Poorly biodegradable.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--|---------|
| 37859-55-5 | 2-Pentanone O,O',O''-(methylsilylidyn)trioxime | 1,25 |

12.4. Mobility in soil

practically insoluble

12.5. Results of PBT and vPvB assessment

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

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

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.

No data available

12.7. Other adverse effects

No indication of other harmful effects.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

After curing, product can be disposed of with domestic or commercial waste. Non-cured material has to be handled as special waste.

List of Wastes Code - residues/unused products

080410 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 other than those mentioned in 08 04 09

List of Wastes Code - contaminated packaging

080410 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 other than those mentioned in 08 04 09

Contaminated packaging

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.



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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: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| EUH210 | Safety data sheet available on request. |



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Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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