SAFETY DATA SHEET

# Flex sealant

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

### 1.1. Product identifier

**Trade name**

Flex sealant

**Other names / Synonyms**

FireStop Sealant 3000

**Product no.**

100721, 100722, 100723

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

**Relevant identified uses of the substance or mixture**

Sealant

**Uses advised against**

None known.

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

**Fireseal AB**
Esbogatan 14
164 74 Kista

**Contact person**

Anders Bengtsson

**Revision**

12/05/2026

**SDS Version**

4.0

### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### 2.2. Label elements

**Hazard pictogram(s)**

Not applicable.

**Signal word**

Not applicable.

**Hazard statement(s)**

Not applicable.

**Precautionary statement(s)**

General
Not applicable.
Prevention
Not applicable.
Response
Not applicable.
Storage
Not applicable.
Disposal
Not applicable.

Hazardous substances
Contains no substances that need to be listed on the label.

Additional labelling
EUH210, Safety data sheet available on request.

2.3. Other hazards

Additional warnings
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
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## SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable. This product is a mixture.

3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---|---|---|---|---|
| Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm] | CAS No.: 13463-67-7<br>EC No.: 236-675-5<br>UK-REACH:<br>Index No.: 022-006-00-2 | 1,2 - 3,9% | | |
| Diisopropoxy-bis(etylacetoacetato)titanium | CAS No.: 27858-32-8<br>EC No.: 248-697-2<br>UK-REACH:<br>Index No.: | 0,4 - 1,1 % | Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 | |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information
-

## SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation
In case of discomfort: bring the person into fresh air.
Consult a doctor if you feel unwell.

Skin contact
Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.

#### Ingestion

Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

#### Burns

Not applicable.

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

Prolonged or repeated exposure may cause: Eczema-like skin problems (dermatitis).

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

Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
In case of fire, the following harmful gases may be produced: Carbon dioxide ($CO_2$). Carbon monoxide (CO). Silicon dioxide. Metal oxides.

### 5.3. Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation, especially in confined areas.

### 6.2. Environmental precautions

Avoid release to the environment. Do not discharge into waterways, sewer systems or drains.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure good ventilation. Wash hands after handling.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

Avoid contact with oxidising agents.
Keep the container tightly closed.

### Incompatible materials

Oxidising agent.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### DNEL

Diisopropoxy-bis(etylacetoacetato)titanium

| Duration: | Route of exposure: | DNEL: |
|---|---|---|
| Long term – Systemic effects - Workers | Inhalation | 500 mg/m³ |

Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]

| Duration: | Route of exposure: | DNEL: |
|---|---|---|
| Long term – Local effects - General population | Inhalation | 28 µg/m³ |
| Long term – Local effects - Workers | Inhalation | 170 µg/m³ |

### PNEC

Diisopropoxy-bis(etylacetoacetato)titanium

| Route of exposure: | Duration of Exposure: | PNEC: |
|---|---|---|
| Freshwater | | 100 µg/L |
| Freshwater sediment | | 81.6 µg/kg |
| Intermittent release (freshwater) | | 1 mg/L |
| Marine water | | 10 µg/L |
| Marine water sediment | | 8.2 µg/kg |
| Soil | | 19 µg/kg |

### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

Wash hands after use.

#### Measures to avoid environmental exposure

Avoid release to the environment. Do not discharge into waterways, sewer systems or drains.

### Individual protection measures, such as personal protective equipment

#### Generally

Use only UKCA marked protective equipment.

#### Respiratory Equipment

| Work situation | Type | Class | Colour | Standards | |
|---|---|---|---|---|---|
| In case of inadequate ventilation | AX | | | |  |

#### Skin protection

| Recommended | Type/Category | Standards | |
|---|---|---|---|
| Dedicated work clothing should be worn. | - | - |  |

#### Hand protection

| Work situation | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|---|---|---|---|---|---|
| In the event of prolonged exposure or high concentrations | Butyl rubber | ≤ 0,35 | - | EN374 |  |
| In the event of prolonged exposure or high concentrations | Neoprene rubber | ≤ 0,35 | - | EN374 |  |
| In the event of prolonged exposure or high concentrations | Nitrile rubber | ≤ 0,35 | - | EN374 |  |
| In the event of prolonged exposure or high concentrations | Viton rubber (fluororubber) | ≤ 0,35 | - | EN374 |  |
| In the event of prolonged exposure or high concentrations | Polyethylene/ethylene vinyl alcohol (PE/EVA) | ≤ 0,35 | - | EN374 |  |
| In the event of prolonged exposure or high concentrations | Polyvinyl chloride (PVC) | ≤ 0,35 | - | EN374 |  |

#### Eye protection

| Work situation | Type | Standards | |
|---|---|---|---|
| When there is risk of splash- / intermittent exposure | Safety glasses with side shields. | EN166 |  |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Paste

#### Colour

White

Odour / Odour threshold
Alcohol odor
pH
No data available.
Density (g/cm³)
-
Relative density
1,45
Kinematic viscosity
No data available.
Particle characteristics
No data available.

Phase changes
Melting point/Freezing point (°C)
No data available.
Softening point/range (°C)
No data available.
Boiling point (°C)
No data available.
Vapour pressure
No data available.
Relative vapour density
No data available.
Decomposition temperature (°C)
No data available.

Data on fire and explosion hazards
Flash point (°C)
> 100 °C
Flammability (°C)
The material is not combustible.
Auto-ignition temperature (°C)
No data available.
Lower and upper explosion limit (% v/v)
No data available.

Solubility
Solubility in water
Insoluble
n-octanol/water coefficient (LogKow)
No data available.
Solubility in fat (g/L)
No data available.

9.2. Other information
Oxidizing properties
No data available.
Other physical and chemical parameters
No data available.

## SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.
10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.
10.3. Possibility of hazardous reactions

Reacts violently with strong oxidizing agents.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Oxidising agent.

### 10.6. Hazardous decomposition products

Upon heating, toxic gases may be formed. Formaldehyde. Benzene. Isopropyl alcohol.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

#### Acute toxicity

| | |
|---|---|
| Product/substance | Flex sealant |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | > 5000 mg/L |

| | |
|---|---|
| Product/substance | Flex sealant |
| Route of exposure: | Dermal |
| Result: | > 2000 mg/kg |

Product/substance
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---|---|
| Species: | Rat |
| Route of exposure: | Inhalation |
| Test: | LC50 (4 hours) |
| Result: | > 6,82 mg/L |

| | |
|---|---|
| Product/substance | Diisopropoxy-bis(etylacetoacetato)titanium |
| Species: | Rat |
| Route of exposure: | Inhalation (dust/mist) |
| Test: | LC50 (4 hours) |
| Result: | > 198,65 mg/L |

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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.

#### Symptoms related to the physical, chemical and toxicological characteristics

None known.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### Other information

-

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---|---|
| Species: | Fish, Leuciscus idus |
| Duration: | 48 hours |
| Test: | NOEC |
| Result: | > 1000 mg/L |

Product/substance
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---|---|
| Species: | Algae, Pseudokirchneriella subcapitata |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | > 100 mg/L |

Product/substance
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---|---|
| Species: | Crustacean, Daphnia magna |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | > 1000 mg/L |

Product/substance
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---|---|
| Species: | Bacteria |
| Duration: | 3 hours |
| Test: | EC50 |
| Result: | > 1000 mg/L |

| | |
|---|---|
| Product/substance | Diisopropoxy-bis(etylacetoacetato)titanium |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 4200 mg/L |

| | |
|---|---|
| Product/substance | Diisopropoxy-bis(etylacetoacetato)titanium |
| Species: | Algae, Pseudokirchneriella subcapitata |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | > 100 mg/L |

| | |
|---|---|
| Product/substance | Diisopropoxy-bis(etylacetoacetato)titanium |
| Species: | Algae, Pseudokirchneriella subcapitata |
| Duration: | 72 hours |
| Test: | NOEC |
| Result: | 100 mg/L |

Product/substance Diisopropoxy-bis(etylacetoacetato)titanium

| | |
|---|---|
| Species: | Crustacean, Daphnia magna |
| Duration: | 48 hours |
| Test: | LC50 |
| Result: | > 100 mg/L |

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

### 12.2. Persistence and degradability

| | |
|---|---|
| Product/substance | Diisopropoxy-bis(etylacetoacetato)titanium |
| Duration: | 28 days |
| Result: | 66 % |
| Conclusion: | - |
| Test: | OECD 301 D |

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

Diisopropoxydi(ethoxyacetoacetyl)titanate: Koc = 1.5

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### Waste treatment methods

Product is not covered by regulations on dangerous waste.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|---|---|---|---|---|---|---|
| ADR/ADN/RID | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

* Packing group
** Environmental hazards

### Additional information

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

No special.

#### Demands for specific education

No specific requirements.

#### Control of Major Accident Hazards (COMAH) - Categories / dangerous substances

Not applicable.

#### UK-REACH, Annex XVII

Diisopropoxy-bis(etylacetoacetato)titanium is subject to UK-REACH restrictions (entry 40).

#### Additional information

Not applicable.

#### Sources

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H319, Causes serious eye irritation.
H336, May cause drowsiness or dizziness.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC = Effective concentration
ED = Effective dose
EINECS = European Inventory of Existing Commercial chemical Substances
EL = Effective Loading
ErC = Concentration associated with x% growth rate response
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
HP = Hazardous Property code
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IC = X maximum inhibitory concentration
IMDG = International Maritime Dangerous Goods
LC = Lethal concentration

LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans
LD = Lethal dose
LOAEC = Lowest Observed Adverse Effect Concentration
LOAEL = Lowest Observed Adverse Effect Level
LOEC = Lowest Observed Effect Concentration
LogKow = logarithm of the n-octanol/water coefficient
LL = Lethal Loading
M = For multiplication factor
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOAEC = No Observed Adverse Effect Concentration
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOELR = No Observable Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

### Additional information

Not applicable.

### The safety data sheet is validated by

Goodpoint

### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en