

SAFETY DATA SHEET**Elastic**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 26.11.2019

Revision date 18.03.2024

1.1. Product identifier

Product name Elastic

Synonyms FireStop 1000

Article no. 100790, 100825

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

Use of the substance / mixture Sealant

1.3. Details of the supplier of the safety data sheet**Downstream user**

Company name Fireseal AB

Postal address Esbogatan 14

Postcode SE-164 74

City Kista

Country Sweden

Email info@fireseal.se

1.4. Emergency telephone number

Emergency telephone Telephone number: 112
Description: In case of emergency

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Substance / mixture hazardous properties Not regarded as a health or environmental hazard under current legislation.

2.2. Label elements

Hazard statements	EUH 208 Contains Trimetoxo(metyl)silan. May produce an allergic reaction. EUH 210 Safety data sheet available on request. EUH 212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Precautionary statements	P271 Use only outdoors or in a well-ventilated area.

2.3. Other hazards

PBT / vPvB	Not PBT or vPvB.
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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	CAS No.: 13463-67-7 EC No.: 236-675-5 Index No.: 022-006-00-2 REACH Reg. No.: 01-2119489379-17	Carc. 2; H351 CLP classification, notes: V, W, 10	1,2 - 4,3 %	
Diisopropoxy-bis(etylacetoacetato) titanium	CAS No.: 27858-32-8 EC No.: 248-697-2	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H336	0,4 - 1,1 %	
Trimetoxo(metyl) silan	CAS No.: 1185-55-3 EC No.: 214-685-0 REACH Reg. No.: 01-2119517436-40	Flam. Liq. 2; H225	$\leq 0,3 \%$	
Substance comments	The full text for all hazard statements is displayed in section 16.			

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention.
Skin contact	Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/ attention.
Eye contact	Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly.

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

Delayed symptoms and effects	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.
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4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Improper extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	During fire, gases hazardous to health may be formed.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Silicon. Silicon dioxide Harmful fumes.

5.3. Advice for firefighters

Fire fighting procedures	Containers close to fire should be removed or cooled with water. Self contained breathing apparatus and full protective clothing must be worn in case of fire. Dike and collect extinguishing water.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	For personal protection, see section 8.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground. Collect and dispose of spillage as indicated in section 13. Contact local authorities in case of spillage to drain/aquatic environment.
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6.3. Methods and material for containment and cleaning up

Containment	Absorb with sand or other inert absorbent. Sweep up and place into an appropriate container.
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6.4. Reference to other sections

Other instructions	See section 7, 8 and 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Observe good chemical hygiene practices. Avoid contact with skin and eyes. Provide good ventilation. Avoid inhalation of vapours. Local exhaust is recommended. Wash hands and contaminated areas with water and soap after finished work. Immediately change contaminated clothes. Avoid eating, drinking and smoking when using the product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed. Avoid contact with oxidising agents.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Titanium dioxide; [in powder form containing 1% or more of particles with aerodynamic diameter \leq 10 μm]	CAS No.: 13463-67-7		
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 400 ppm Limit value (8 h) : 999 mg/m ³ Limit value (short term) Value: 500 ppm Limit value (short term) Value: 1250 mg/m ³	

DNEL / PNEC

DNEL

Group: Professional
 Route of exposure: Long-term inhalation (local)
 Value: 0,170 mg/m³
 Comments: CAS: 13463-67-7

Group: Consumer
 Route of exposure: Long-term inhalation (local)
 Value: 0,028 mg/m³
 Comments: CAS: 13463-67-7

Group: Professional
 Route of exposure: Long-term inhalation (systemic)
 Value: 500 mg/m³
 Comments: CAS: 27858-32-8

Group: Professional
 Route of exposure: Long-term dermal (systemic)
 Value: 3,6 mg/m³
 Comments: CAS: 1185-55-3

Group: Professional
 Route of exposure: Long-term inhalation (systemic)
 Value: 25,6 mg/m³
 Comments: CAS: 1185-55-3

Group: Consumer
 Route of exposure: Long-term dermal (systemic)
 Value: 7,2 mg/m³

PNEC

Comments: CAS: 1185-55-3

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 6,25 mg/m³

Comments: CAS: 1185-55-3

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 0,26 mg/m³

Comments: CAS: 1185-55-3

Route of exposure: Saltwater

Value: 0,01 mg/l

Comments: CAS: 27858-32-8

Route of exposure: Water

Value: 1,0 mg/l

Comments: CAS: 27858-32-8

Route of exposure: Freshwater sediments

Value: 0,0816 mg/kg dw

Comments: CAS: 27858-32-8

Route of exposure: Saltwater sediments

Value: 0,0082 mg/kg dw

Comments: CAS: 27858-32-8

Route of exposure: Soil

Value: 0,019 mg/kg dw

Comments: CAS: 27858-32-8

Route of exposure: Freshwater

Value: 0,1 mg/l

Comments: CAS: 27858-32-8

Route of exposure: Freshwater sediments

Value: 0,73 mg/kg

Comments: CAS: 1185-55-3

Route of exposure: Saltwater sediments

Value: 0,073 mg/kg

Comments: CAS: 1185-55-3

Route of exposure: Soil

Value: 0,03 mg/kg

Comments: CAS: 1185-55-3

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Appropriate engineering controls	Well-ventilated area. Use engineering controls to reduce air contamination to permissible exposure level.
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Eye / face protection

Required Properties	Wear approved, tight fitting safety glasses where splashing is probable.
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Hand protection

Skin- / hand protection, short term contact	Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Suitable materials	Butyl rubber. Neoprene. Nitrile. Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Polyvinyl chloride (PVC). Viton rubber (fluor rubber).

Skin protection

Additional skin protection measures	Wear suitable protective clothing as protection against splashing or contamination.
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Respiratory protection

Respiratory protection necessary at	Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation wear respiratory protection.
Recommended type of equipment	Use respiratory equipment with gas filter, type AX.

Appropriate environmental exposure control

Environmental exposure controls	Avoid release to the environment.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Paste.
Colour	White. Yellow white.
Odour	Odour of alcohol.
pH	Status: In delivery state Comments: No data available.
	Status: In aqueous solution Comments: No data available.
Melting point / melting range	Comments: No data available.
Boiling point / boiling range	Comments: No data available.
Flash point	Value: > 100 °C Comments: closed cup
Flammability	This product is not flammable.
Explosion limit	Comments: No data available.

Vapour pressure	Comments: No data available.
Vapour density	Comments: No data available.
Relative density	Value: 1,45
Solubility	Comments: Insoluble in water.
Partition coefficient: n-octanol/ water	Comments: No data available.
Auto-ignition temperature	Comments: No data available.
Decomposition temperature	Comments: No data available.
Viscosity	Comments: No data available.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No information.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Reacts violently with strong oxidising substances.
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10.4. Conditions to avoid

Conditions to avoid	Not known.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Formaldehyde. Benzene. Rubbing alcohol.
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SECTION 11: Toxicological information

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

Acute toxicity	Effect tested: ATEmix calculated Route of exposure: Oral Value: > 5000 mg/kg
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Effect tested: ATEmix calculated
 Route of exposure: Dermal
 Value: > 2000 mg/kg

Effect tested: LC50
 Route of exposure: Inhalation. (dust / mist)
 Duration: 4 hour(s)
 Value: > 6,82 mg/l
 Species: Rat
 Test reference: CAS: 13463-67-7

Effect tested: LC50
 Route of exposure: Inhalation (vapour)
 Duration: 4 hour(s)
 Value: > 198,65 mg/l
 Species: Rat
 Test reference: CAS: 27858-32-8

Effect tested: LC50
 Route of exposure: Inhalation (vapour)
 Duration: 6 hour(s)
 Value: > 7605 ppm
 Species: Rat
 Comments: CAS: 1185-55-3

Other information regarding health hazards

Assessment of acute toxicity, classification	No specific health warnings noted.
Assessment of skin corrosion / irritation, classification	No specific health warnings noted.
Assessment of eye damage or irritation, classification	No specific health warnings noted.
Assessment of respiratory sensitisation, classification	No specific health warnings noted.
Assessment of skin sensitisation, classification	The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.
Assessment of germ cell mutagenicity, classification	No specific health warnings noted.
Assessment of carcinogenicity, classification	No specific health warnings noted.
Assessment of reproductive toxicity, classification	No specific health warnings noted.
Assessment of specific target organ toxicity - single exposure, classification	No specific health warnings noted.
Assessment of specific target organ toxicity - repeated exposure, classification	No specific health warnings noted.
Assessment of aspiration hazard, classification	No specific health warnings noted.

Symptoms of exposure

In case of ingestion	No specific symptoms noted.
In case of skin contact	May cause sensitization in sensitive people.
In case of inhalation	Vapours may cause drowsiness and dizziness.
In case of eye contact	May cause temporary eye irritation.

11.2 Other information

Endocrine disruption	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.
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SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Acute
	Value: > 1000 mg/l
	Effect dose concentration: NOEC
	Exposure time: 48 hour(s)
	Species: Leuciscus idus
	Comments: CAS: 13463-67-7
	Toxicity type: Acute
	Value: 4200 mg/l
	Effect dose concentration: LC50
Exposure time: 96 hour(s)	
Species: Rasbora heteromorpha	
Comments: CAS: 27858-32-8	
Aquatic toxicity, algae	Toxicity type: Acute
	Value: > 110 mg/l
	Effect dose concentration: LC50
	Exposure time: 96 hour(s)
	Species: Oncorhynchus mykiss
	Comments: CAS: 1185-55-3
	Toxicity type: Acute
	Value: > 100 mg/l
	Effect dose concentration: EC50
Exposure time: 72 hour(s)	
Species: Pseudokirchneriella subcapitata	
Comments: CAS: 13463-67-7	
Aquatic toxicity, algae	Toxicity type: Acute
	Value: > 100 mg/l
	Effect dose concentration: ERC50
Aquatic toxicity, algae	Exposure time: 72 hour(s)
	Species: Pseudokirchneriella subcapitata
	Comments: CAS: 27858-32-8
Aquatic toxicity, algae	Toxicity type: Acute
	Value: 100 mg/l

	<p>Effect dose concentration: NOEC Exposure time: 72 hour(s) Species: Pseudokirchneriella subcapitata Comments: CAS: 27858-32-8</p> <p>Toxicity type: Acute Value: > 3,6 mg/l Effect dose concentration: ERC50 Exposure time: 72 hour(s) Species: Pseudokirchneriella subcapitata Comments: CAS: 1185-55-3</p> <p>Toxicity type: Acute Value: ≥ 3,6 mg/l Effect dose concentration: NOEC Exposure time: 72 hour(s) Species: Pseudokirchneriella subcapitata Comments: CAS: 1185-55-3</p>
Aquatic toxicity, crustacean	<p>Toxicity type: Acute Value: > 1000 mg/l Effect dose concentration: EC50 Exposure time: 48 hour(s) Species: Daphnia magna Comments: CAS: 13463-67-7</p> <p>Toxicity type: Acute Value: > 100 mg/l Effect dose concentration: LC50 Exposure time: 48 hour(s) Species: Daphnia magna Comments: CAS: 27858-32-8</p> <p>Toxicity type: Acute Value: > 122 mg/l Effect dose concentration: EC50 Exposure time: 48 hour(s) Species: Daphnia magna Comments: CAS: 1185-55-3</p> <p>Toxicity type: Chronic Value: ≥ 10 mg/l Effect dose concentration: NOEC Exposure time: 28 day(s) Species: Daphnia magna Comments: CAS: 1185-55-3</p>
Toxicity to bacteria	<p>Value: > 1000 mg/l Effect dose concentration: EC50 Exposure time: 3 hour(s) Comments: CAS: 13463-67-7</p> <p>Value: > 100 mg/l Effect dose concentration: EC10 Exposure time: 3 hour(s)</p>

Ecotoxicity	Comments: CAS: 1185-55-3 Not classified as dangerous to the environment.
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12.2. Persistence and degradability

Persistence and degradability description/evaluation	Not entered.
Biodegradability	Value: 66 % Method: OECD 301D Comments: CAS: 27858-32-8 Test period: 28 day(s)
	Value: 54 % Method: EG 440/2008, C.4-A Comments: CAS: 1185-55-3 Test period: 28 day(s)

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)	Value: 3 Species: Fisk Comments: CAS: 27858-32-8
Bioaccumulation, evaluation	Not entered.

12.4. Mobility in soil

Mobility evaluation	Not entered.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Endocrine disrupting properties

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.
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12.7. Other adverse effects

Additional ecological information	No information.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Avoid release to the environment. Collect spillage. Dispose of waste and residues in accordance with local authority requirements.
EWC waste code	EWC waste code: 080410 waste adhesives and sealants other than those mentioned in 08 04 09 Classified as hazardous waste: No

EWL packing	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No
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SECTION 14: Transport information

Dangerous goods	No
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14.1. UN number

Comments	The product is not classified as dangerous goods.
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14.2. UN proper shipping name

Comments	Not relevant.
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14.3. Transport hazard class(es)

Comments	Not relevant.
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14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

Comments	Not relevant.
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14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Maritime transport in bulk according to IMO instruments

ICAO/IATA Other information

Other transport, general	Not relevant.
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SECTION 15: Regulatory information

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

Nanomaterial	No
Legislation and regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (REACH).

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).
EH40/2005, Workplace exposure limits 2005, with amendments.

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer .
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
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