Fire Door Silicone Sealant

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier: FR Silicone Sealant

1.2 Product code: FAS-FRSILICONE

1.3 Use: No additional information is available.

1.4 Supplier of the safety data sheet:

Fire & Acoustic Seals Limited
Unit 17 Spartan Industrial Estate
Brickhouse Lane
West Bromwich, B70 0DH
United Kingdom
Phone: +44 (0)121 521 2179
Email: sales@fireandacousticseals.co.uk
www.fireandacousticseals.co.uk

1.5 Emergency telephone number:

+44 (0)121 521 2179 (Office Hours 08:00 to 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Regulation EC 1272/2008 (CLP)

This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2 Label elements

2.2.1 Regulation EC 1272/2008 (CLP)

EUH statements: EUH208 - Contains 3-(2-Aminoethylamino)propyltriethoxysilane(5089-72-5), trimethoxyvinylsilane(2768-02-7), N,N-bis(3-(triethoxy silyl)propyl)-1,2-ethylene diamine(457065-96-2). May produce an allergic reaction.

2.3 Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-(2-Aminoethylamino)propyltriethoxysilane	CAS-No.: 5089-72-5 EC-No.: 225-806-1 REACH-no: 01-2120767929-30	≥ 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
trimethoxyvinylsilane	CAS-No.: 2768-02-7 EC-No.: 220-449-8	< 1	Skin Sens. 1B, H317 STOT RE 2, H373 Aquatic Chronic 3, H412
N,N-bis(3-(triethoxy silyl)propyl)-1,2-ethylene diamine	CAS-No.: 457065-96-2	< 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317

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

SECTION 4: FIRST AID MEASURES

4.1 General: In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison centre or a doctor if you feel unwell.

4.2 Most important symptoms and effects

No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

The liquid product is 'non-flammable'.

5.1 Extinguishing media:

Suitable extinguishing media: Foam, CO^2, dry powder, water spray.

5.2 Special hazards arising from the substance or mixture:

Hazardous decomposition of products in the event of a fire: Toxic fumes may be released.

5.3 Advice for firefighters:

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1: Personal precautions and protective equipment:

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment.
For further information refer to section 8: "Exposure controls/personal protection".

6.2: Environmental precautions: Avoid release to the environment.

6.3: Method for containment and clean up:

Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorised site.

6.4: Reference to other sections:

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: Ensure good ventilation of the workstation. Wear personal protective equipment.

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Precautions for safe storage: Store in a well-ventilated place. Keep cool.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values: No additional information available

8.1.2. Recommended monitoring procedures: No additional information available

8.1.3. Air contaminants formed: No additional information available

8.1.4. DNEL and PNEC: No additional information available

8.1.5. Control banding: No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls: Ensure good ventilation of the work station.

8.2.2. Personal protection equipment:

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection: Safety glasses

8.2.2.2. Skin protection: Wear suitable protective clothing and protective gloves

8.2.2.3. Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards: No additional information available

8.2.3. Environmental exposure controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Paste
Colour	Various colours
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	>400°C
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	1.25 – 1.3
Density	1.25 – 1.3 g/cm³
Solubility	Water: Virtually Insoluble
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 **Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.

10.2 **Chemical stability:** Stable under normal conditions

10.3 **Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.

10.4 **Conditions to avoid:** None under the recommended storage and handling conditions – see Section 7.

10.5 **Incompatible materials:** No additional information available.

10.6 **Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 **Information on toxicological effects**

Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified

trimethoxyvinylsilane (2768-02-7)	
NOAEL (oral, rat, 90 days)	62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified

trimethoxyvinylsilane (2768-02-7)	
Viscosity, kinematic	0.7 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

Not rapidly degradable

trimethoxyvinylsilane (2768-02-7)	
LC50 - Fish [1]	> 92.2 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	168.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 957 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	52.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	28.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability: No additional information available

12.3. Bioaccumulative potential: No additional information available

12.4. Mobility in soil: No additional information available

12.5. Results of PBT and vPvB assessment: No additional information available

12.6. Other adverse effects: No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: TRANSPORT INFORMATION

In accordance with **ADR / IMDG / IATA / ADN / RID**

14.1 UN number: Not applicable

14.2 UN proper shipping number: Not applicable

14.3 Transport hazard class: Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable

No supplementary information available

14.6 Special precautions for use:

Overland transportation: Not applicable

Transportation by sea: Not applicable

Inland waterway transportation: Not applicable

Rail transportation: Not applicable

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List): Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List): Contains no REACH Annex XIV substances

REACH Candidate List (SVHC): Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent): Contains no substance subject to Regulation (EU) No 649/2012 the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants): Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

Ozone Regulation (1005/2009): Contains no substance subject to REGULATION (EU) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148): Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004): Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations: No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	NOAEC	No-Observed Adverse Effect Concentration
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	NOAEL	No-Observed Adverse Effect Level
ATE	Acute Toxicity Estimate	NOEC	No-Observed Effect Concentration
BCF	Bioconcentration factor	OECD	Organisation for Economic Co-operation and Development
BLV	Biological limit value	OEL	Occupational Exposure Limit
BOD	Biochemical oxygen demand (BOD)	PBT	Persistent Bioaccumulative Toxic
COD	Chemical oxygen demand (COD)	PNEC	Predicted No-Effect Concentration
DMEL	Derived Minimal Effect level	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
DNEL	Derived-No Effect Level	SDS	Safety Data Sheet
EC-No.	European Community number	STP	Sewage treatment plant
EC50	Median effective concentration	ThOD	Theoretical oxygen demand (ThOD)
EN	European Standard	TLM	Median Tolerance Limit
IARC	International Agency for Research on Cancer	VOC	Volatile Organic Compounds
IATA	International Air Transport Association	CAS-No.	Chemical Abstract Service number
IMDG	International Maritime Dangerous Goods	N.O.S.	Not Otherwise Specified
LC50	Median lethal concentration	vPvB	Very Persistent and Very Bioaccumulative
LD50	Median lethal dose	ED	Endocrine disrupting properties
LOAEL	Lowest Observed Adverse Effect Level		

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
EUH208	Contains 3-(2-Aminoethylamino)propyltriethoxysilane(5089-72-5), trimethoxyvinylsilane(2768-02-7), N,N-bis(3-(triethoxy silyl)propyl)-1,2-ethylene diamine(457065-96-2). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of EU Regulation 1272/2008 (CLP). The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

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