

# Firebreak 33 Fire Resistant Silicone Sealant

**SAFETY DATA SHEET** ACCORDING TO REGULATION (EC) NO. 1907/2006 (REACH) WITH ITS AMENDMENT REGULATION (EU) 2020/878. ISSUE DATE: DEC 23

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

**Product form:** Mixture.

**Trade name:** Firebreak 33.

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

#### 1.2.1 Relevant identified uses

**Main use category:** Professional use.

**Use of substance/mixture:** Sealants.

#### 1.2.2 Uses advised against

- No additional information available

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

**Company name and address:** Neutron Fire Technologies Limited, Shire Hall, Lostwithiel, Cornwall PL22 0BS, United Kingdom.

**Telephone:** +44 (0)1208 871 185

**Email:** sales@neutronfire.com

### 1.4 Emergency telephone number

**Emergency number:** +44 (0)1208 871 185 (office hours only)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

- Not classified

#### 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

**Labelling according to Regulation (EC) No. 1272/2008**

#### EUH-statements:

- EUH208 – Contains trimethoxysilane [2768-02-7], N,N-bis(3-(triethoxysilyl)propyl)-1,2-Ethylenediamine [457065-96-2], 3-(2-Aminoethylamino)propyltriethoxysilane [5089-72-5]
- May produce an allergic reaction

### 2.3 Other hazards

- Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII
- The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## 3. Composition / information on ingredients

### 3.1 Substances

- Not applicable

### 3.2 Mixtures

Name	Product identifier	%	Classification
<b>According to Reg. (EC) 272/2008 (CLP)</b>			
3-(2-Aminoethylamino)propyltriethoxysilane	CAS-No.: 5089-72-5 EC-No.: 225-806-1 REACH No.: 01-2120767929-30	$\geq 1$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sewns. 1B, H317
Trimethoxyvinylsilane	CAS-No.: 2768-02-7 EC-No.: 220-449-8	< 1	Skin Sens. AB, H317 STOT RE 2, H373 Aquatic Chronic 3, H412
N,N-Bis(3-(triethoxysilyl)propyl)-1,2-ethylenediamine	CAS-No.: 457065-96-2	< 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317

Continues on the next page.

## 4. First-aid measures

### 4.1 Description of first-aid measures

#### 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, both acute and delayed

- No additional information available

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

- Treat symptomatically

## 5. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

- Water spray
- Dry powder
- Foam
- Carbon dioxide

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

#### Hazardous decomposition products in case of 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
- Wear protective clothing

## 6. Accidental release measures

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

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

#### Methods for cleaning up:

- Take up liquid spill with 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.

## 7. Accidental release measures

### 7.1 Precautions for safe handling

#### Precautions for safe handling:

- Ensure good ventilation of the workstation
- Wear personal protective equipment

#### Hygiene measures:

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

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

#### Storage conditions:

- Store in a well-ventilated place
- Keep cool

### 7.3 Specific end use(s)

- No additional information available

## 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

##### 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

##### Eye protection:

- Safety glasses

#### 8.2.2.2 Skin protection

##### Skin and body protection:

- Wear suitable protective clothing

##### Hand protection:

- Protective gloves

#### 8.2.2.3 Respiratory protection

##### 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

#### Environmental exposure controls:

- Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Physical state:

- Liquid

#### Colour:

- White

#### Appearance:

- Paste

#### Odour:

- Not available

#### Odour threshold:

- Not available

#### Melting point:

- Not available

#### Freezing point:

- Not available

#### Boiling point:

- Not available

#### Flammability:

- Non-flammable

#### Explosive limits:

- Not available

#### Lower explosion limit:

- Not available

#### Higher explosion limit:

- Not available

#### Flash point:

- Not available

#### Auto-ignition temperature:

- Not available

#### Decomposition temperature:

- Not available

#### pH:

- Not available

#### Viscosity:

- Kinematic: Not applicable

## 9. Physical and chemical properties *continued*

### Solubility:

- Not available

### Partition coefficient n-octanol/water:

- Not available

### Vapour pressure:

- Not available

### Vapour pressure at 50°C:

- Not available

### Density:

- Not available

### Relative density:

- Not available

### Relative vapour density at 20°C:

- Not available

### Particle characteristics:

- Not applicable

## 9.2. Other information

### 9.2.1 Information with regard to physical hazard classes

- No additional information available

### 9.2.2 Other safety characteristics

- No additional information available

## 10. Physical and chemical properties *continued*

### 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 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

## 11. Toxicological information

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

#### Acute toxicity (oral):

- Not classified

#### Acute toxicity (dermal):

- Not classified

#### Acute toxicity (inhalation):

- Not classified

#### Skin corrosion/irritation:

- Not classified

#### Serious eye damage/irritation:

- Not classified

#### Germ cell mutagenicity:

- Not classified

#### Reproductive toxicity:

- Not classified

#### STOT-single exposure:

- Not classified

#### STOT-repeated exposure:

- Not classified

#### Aspiration hazard:

- Not classified

#### Viscosity:

- Kinematic: 0.7mm/s<sup>-1</sup> Temp: 20°C

#### Respiratory or skin sensitisation:

- Results based on in vivo studies on laboratory animals determined that trimethoxyvinylsilane (VTMO) has been classified for skin sensitisation category 1B (H317) under Annex VI to Regulation (EC) No. 1272/2008
- Evidence acquired from tests conducted on the materials we use in this product has demonstrated that no allergic reactions have been reported after occupational exposure in VTMO mixtures of up to 5%
- Due to lack of evidence of any sensitising potential at this concentration or less, this product has not been classified as H317 1B as determined by expert judgement

## 11. Toxicological information *continued*

### 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

#### 11.1.2 Information on other hazards

- No additional information available

## 12. Ecological information

### 12.1 Toxicity

**Ecology – general:**

- The product is not considered harmful to aquatic organisms or to cause long term adverse effects in the environment

**Hazardous to the aquatic environment:**

- Not classified for short-term (acute)
- Harmful to aquatic life with long lasting effects (chronic)
- Not rapidly degradable

### Trimethoxyvinylsilane

**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 Subpicatus*

**LOEC Chronic:**

- 52.4 mg/l Test organisms (species): *Daphnia Magna*
- Duration 21 days

**NOEC Chronic:**

- 28.1 mg/l Test organisms (species): *Daphnia Magna*
- Duration 21 days

### 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 Endocrine disrupting properties

- No additional information available

### 12.7 Other adverse effects

- No additional information available

## 13. Disposal considerations

### 13.1 Waste treatment methods

**Waste treatment methods:**

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

## 14. Transport information

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

### 14.1 UN number or ID number

**UN-No. (ADR):**

- Not applicable

**UN-No. (IMDG):**

- Not applicable

**UN-No. (IATA):**

- Not applicable

**UN-No. (ADN):**

- Not applicable

**UN-No. (RID):**

- Not applicable

### 14.2 Proper shipping name

**Proper shipping name (ADR):**

- Not applicable

**Proper shipping name (IMDG):**

- Not applicable

**Proper shipping name (IATA):**

- Not applicable

**Proper shipping name (ADN):**

- Not applicable

**Proper shipping name (RID):**

- Not applicable

## 14. Transport information *continued*

### 4.3 Transport hazard class(es)

#### Transport hazard class(es) (ADR):

- Not applicable

#### Transport hazard class(es) (IMDG):

- Not applicable

#### Transport hazard class(es) (IATA):

- Not applicable

#### Transport hazard class(es) (ADN):

- Not applicable

#### Transport hazard class(es) (RID):

- Not applicable

### 14.4 Packing group

#### Packing group (ADR):

- Not applicable

#### Packing group (IMDG):

- Not applicable

#### Packing group (IATA):

- Not applicable

#### Packing group (ADN):

- Not applicable

#### Packing group (RID):

- Not applicable

### 14.5 Environmental hazards

#### Dangerous to the environment:

- No

#### Marine pollutant:

- No

#### Other information:

- No supplementary information available

### 14.6 Special precautions for user

#### Overland transport:

- Not applicable

#### Overland transport:

- Not applicable

#### Transport by sea:

- Not applicable

#### Air transport:

- Not applicable

#### Inland waterway transport:

- Not applicable

#### Rail transport:

- Not applicable

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

- Not applicable

## 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 of 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

## 16. Other information

### 16.1 Abbreviations and acronyms:

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

### 16.2 Full text of H- and EUH-statements

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one [2634-33-5]. May produce an allergic reaction
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. Therefore, it should not be construed as guaranteeing any specific property of the product.



End of safety data sheet.