

Firebreak 33 Fire Resistant Silicone Sealant

SAFETY DATA SHEET

1. Identification of the preparation and company

Product Name: Firebreak 33 Fire Resistant Silicone Sealant.

- One component neutral cure silicone sealant with fire and smoke resisting gap and service penetrating capability for internal and external use

Supplier: Neutron Fire Technologies Limited, Shire Hall, Lostwithiel, Cornwall, PL22 0BS, United Kingdom. Telephone: +44 (0) 1208 871 185
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2. Hazards Identification

Classification of the mixture – Regulation EC 1272/2008:

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

Contains 3-aminopropyltriethoxysilane:

- May cause an allergic reaction
- Product hydrolyses under formation of methanol (CAS no. 67-56-1)
- Methanol is toxic by inhalation, in contact with skin and if swallowed

- Methanol causes damage to organs
- Methanol is highly flammable
- Product hydrolyses, producing ethanol (CAS no. 64-17-5)
- Ethanol is highly flammable

Other hazards:

- This product DOES NOT contain any PBT or vPvB substances

3. Composition / information on ingredients

Ingredient	CAS no.	EC no.	REACH registration no.	Classification	% W/W
				According to Reg. (EC) 1278/2008 (CLP)	
3-aminopropyl(methyl)silsesquioxanes ethoxy-terminated	128446-60-6	–	–	Flam. Liq. 3: H226 Eye Irrit. 2: H319 Skin Irrit. 2: H315	<2
Dioctyltin oxide tetraethylorthosilicate	870-08-6 78-10-4	2127911 2010838	01-2119971268-27-0002 01-2119496195-28-xxxx	STOT SE 2: H371 Flam Liq: H226 Acute tox. 4: H332 Eye Irrit. 2: H319	<1

For full text see section 16

4. First-aid measures

General:

- In all cases of doubt, or when symptoms persist, seek medical attention
- If unconscious, place in recovery position, give nothing by mouth

Inhalation:

- Remove to fresh air
- If breathing is irregular or stopped, administer artificial respiration

Eye contact:

- Remove contact lenses
- Immediately irrigate copiously with clean water for at least 15 minutes and seek medical attention

Skin contact:

- Remove contaminated clothing

- Wash skin thoroughly with soap and water or recognised skin cleaner
- Do not use solvents or thinners
- Seek medical attention if skin irritation persists

Ingestion:

- If swallowed wash mouth with water, drink large volumes of water and obtain immediate medical attention
- Keep at rest
- Do NOT induce vomiting

Most important symptoms and effects:

- Skin contact: Prolonged contact may cause irritation and dry skin
- Eye contact: May cause eye irritation.
- Ingestion: Possible discomfort

Continues on the next page.

5. Firefighting measures

Suitable extinguishing media:

- Carbon dioxide, alcohol resistant foam, powder, water spray/mist

Special hazards:

- The product contains organic compounds which in fire will produce dense black smoke containing hazardous products of combustion such as carbon monoxide and carbon dioxide

- Exposure to decomposition products may be a hazard to health
- Appropriate self-containing breathing apparatus and approved protective clothing may be required
- Do not allow run off from firefighting to enter drains or watercourses

6. Accidental release measures

- Exclude non-essential personnel
- Avoid breathing in vapours (see protective measures in sections 7 & 8)
- Contain/collect spillage with non-combustible absorbent materials (e.g. sand, earth)
- Place waste in marked containers and dispose of in accordance with local regulations (see section 13)

- Clean contaminated surfaces, preferably with detergents
- Do not use solvents and prevent residue from entering drains or watercourse
- If materials enter drains or watercourse inform the local water authority and/or environment agency immediately

7. Handling and storage

Handling:

- Avoid contact with skin and eyes
- Smoking, eating and drinking should be avoided in areas of storage or use
- Wash hands before breaks and after work (for personal protection, see section 8)
- Keep containers closed whilst not in use and away from sources of ignition
- Never use pressure to empty; the container is not a pressure vessel
- Ensure good housekeeping and regular safe removal of waste materials
- The Manual Handling Regulations may apply to the handling of containers/packages of this product

In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms. Allowance will then have to be given to the immediate packaging to give the approximate gross weight.

Storage:

- Observe label precautions
- Store between +5°C and +25°C in a dry, well-ventilated place away from sources of heat. Protect from frost
- Do not store product in proximity to food, drink or animal feed
- Keep out of the reach of children
- Keep the product away from oxidizing agents and strongly alkaline or acid agents

8. Exposure controls / personal protection

CAS no.	Material	Type	mg/m ³	ppm
67-56-1	Methanol	OEL	266.0	200.0

Exposure controls:

- Provide adequate ventilation during application and drying
- Where practicable this should be achieved by the use of local exhaust ventilation. If this is not sufficient suitable respiratory protection must be worn (see below).

Personal protection:

- Contact your local supplier of personal protection equipment for guidance when choosing suitable equipment for the working situation in question
- All personal protective equipment (PPE), including respiratory protective equipment (RPE), used to control exposure to hazardous substances must be selected to meet the requirements of current regulations

Respiratory protection:

- If exposure to hazardous substances identified in section 8 cannot be controlled by the provision of natural ventilation (e.g. work in enclosed

areas) exposure should be controlled where reasonably practicable by the use of mechanical exhaust ventilation; when this is not reasonably practicable, suitable respiratory protective equipment must be worn

Hand protection:

- When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product
- The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed
- Barrier creams may help to protect exposed areas of skin but are not suitable for full physical protection (they should not be applied once exposure had occurred)

Eye protection:

- Wear suitable eye protection designed to protect against liquid splashes and conforming to EN166

Skin protection:

- Cotton or cotton/synthetic overalls are normally suitable
- Grossly contaminated clothing should always be removed and the skin washed with soap and water or a recognised skin cleaner
- Always wash your hands before eating, smoking or using the toilet

Continues on the next page.

9. Physical and chemical properties

Appearance:

- Physical state: Viscous paste
- Colour: White, grey
- Odour: Pleasant

Safety relevant basic data:

- Flash point: N/A

- Specific gravity: 1.25 – 1.30 (20°C)
- Solubility in Water: Not soluble

Other information:

- Re 9.2 solubility in water: Hydrolytic decomposition occurs
- Explosion limits for released methanol: 5.5 – 44% (V)
- Explosion limits for released ethanol: 3.5 – 15%(V)

10. Stability and reactivity

Reactivity:

- No data available

Chemical stability:

- Stable under normal temperature and storage conditions

Hazardous reactions:

- No dangerous reactions known under normal conditions of use (see product data sheet)

Conditions to avoid:

- Strong acids, bases and oxidizing materials

Incompatible materials:

- See section 4

Hazardous decomposition products:

- See section 5

11. Toxicological information

11.1 Information on Toxicological effects

11.1.1 Acute toxicity

Product details:

Route of exposure	Result/effect	Species/test system	Source
Oral	LD ₅₀ :>2000mk/kg	Rat	Conclusion by analogy
Dermal	LD ₅₀ :>2000mk/kg	Rat	Conclusion by analogy

11.1.2 Skin corrosion/irritation

Product details:

Result/effect	Species/test system	Source
Not irritating	Rabbit	Conclusion by analogy
Not irritating	Rabbit	Conclusion by analogy

11.1.3 Serious eye damage/eye irritation

Product details:

Result/effect	Species/test system	Source
Not irritating	Rabbit	Conclusion by analogy
Not irritating	Rabbit	Conclusion by analogy

11.1.4 Respiratory or skin sensitisation

Product details:

Route of exposure	Result/effect	Species/test system	Source
Dermal	Not sensitising	Guinea pig; Bühler	Conclusion by analogy

Continues on the next page.

11. Toxicological information *continued*

11.1.5 Germ cell mutagenicity

Assessment:

- For this endpoint no toxicological test data is available for the whole product

11.1.6 Carcinogenicity

Assessment:

- For this endpoint no toxicological test data is available for the whole product

11.1.7 Reproductive toxicity

Assessment:

- For this endpoint no toxicological test data is available for the whole product

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

- For this endpoint no toxicological test data is available for the whole product

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

- For this endpoint no toxicological test data is available for the whole product

11.1.10 Aspiration hazard

Assessment:

- Based on the physical-chemical properties of the product no aspiration hazard must be expected

12. Ecological information

Toxicity

Assessment:

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties

- For this product no effects on aquatic organisms, relevant for classification, are expected
- According to the current knowledge adverse effects on water purification plants are not expected

12.2 Persistence & degradability

Assessment:

- Silicone content: biologically not degradable
- Separation by sedimentation
- The product of hydrolysis (methanol) is readily biodegradable

12.3 Bioaccumulative potential

Assessment:

- Polymer component: No adverse effects expected

12.4 Mobility in soil

Assessment:

- Insoluble in water
- No adverse effects expected

12.5 Results of PBT and vPvB assessment

- This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects

- None known

12.7 Additional information

- Easily separable from water by filtration

13. Disposal considerations

- Do not allow product to enter watercourses or drains
- Dispose of this material as hazardous or special waste in accordance with local or national requirements

- Cured product is non-hazardous and can be disposed of as household waste
- Dispose of contaminated packaging as product

14. Transport considerations

Transport within the users premises:

- Always transport in closed containers that are upright and secure
- Ensure that persons transporting the product know what to do in the event of accident or spillage

Onwards transport subsequent to purchase:

- This product is not covered by international regulation on the transport of dangerous goods

UN number:

- N/A

Proper shipping name:

- N/A

Transport hazard class:

- See 14.2

Packing group:

- See 14.2

Environmental hazards:

- Not classed as marine pollutant

Special precautions for users:

- No (see section 7)

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:

- Not applicable

Continues on the next page.

15. Regulatory information

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

- Chemical (Hazard Information and Packaging for Supply) (Amendment) Regulations 2009
- Control of Substances Hazardous to Health Regulations 1999
- Environment Act 1995
- Management of Health and Safety at Work Regulations 1999
- Personal Protective Equipment at Work Regulations 1992
- Special Waste Regulations 1996 as amended

Health and safety executive guidance notes

- HS(G)37 An Introduction to Local Exhaust Ventilation
- EH40 Occupational Exposure Limits
- EH44 Dust: General Principles of Protection
- HS(G)53 The Selection, Use and Maintenance of Respiratory Protective Equipment

- HS(G)71 Storage of Packaged Dangerous Substances
- HS(G)193 COSHH Essentials: Easy Steps to Control Chemicals
- L23 Manual Handling Guidance on Regulations

British standards publications

- EN420: General Requirements for Gloves
- EN166: Personal Eye Protection: Specifications
- BS2092: Eye Protection for Industrial and Non-Industrial Users
- BS4275: Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. Other information

Explanation of the GHS Classification Code:

- Flammable Liquid 3; H226
- Flammable liquids Category 3; Flammable liquid & Vapour

Eye Irritant 2; H319

- Serious eye damage/eye irritation Category 2A; Causes serious eye irritation

Skin Irritant 2; H315

- Skin corrosion/irritation Category 2; Causes skin irritation.

STOT SE 2: H371

- May cause damage to organs

Flammable Liquid 3: H226

- Flammable liquid and vapour

Acute Toxicity 4: H332

- Harmful if inhaled

STOT SE 3: H335

- May cause respiratory irritation

This safety data sheet should be used in conjunction with technical data sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his/her responsibility.

