



suppliers of passive fire products, acoustic and specialist insulation
manufacturers of the Safire Fire Stopping Range

Material Safety Data Sheet

SAFIRE FIRESCREEN SILICONE SEALANT

Section 1: Identification of the Substance/Preparation and of Company undertaking

1.1 Identification of the substance or preparation:

PRODUCT: Safire Firescreen Silicone Sealant

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USE: An elastic, neutral cure, single component, fire resistant silicone sealant for internal and external uses. Application by sealant gun.

1.2 Company/undertaking identification:

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United Kingdom
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Section 2: Composition/Information on Ingredients

Ingredients: Blend of Polydimethylsiloxanes, amorphous silica, fillers, additives & crosslinker.

Substances presenting a health hazard within the meaning of the CHIP regulations or which are assigned Occupational Exposure Limit values:

Name	Conc.Range	CAS No.	Symbol*	R-Phrases*
Vinylsilane trimethoxy	<5%	2768-02-7	Xn R	R10, R20
Titanium tetrabutanolate	<2%	5593-70-4	Xi	R10, R38, R41
Further information – During use, on contact with humidity in the air, the following are released:-				
Methanol	max.3%	67-56-1	F T	R11,R23/24/25, R39/23/24/25
1-Butanol	<2%	71-36-3	Xn	R10, R22, R37/38, R41, R67

*for full text see section 16.

Section 3: Hazards Identification

Slightly irritating to eyes, respiratory system and skin.
According to EC criteria, the product is not classified as a hazardous preparation.

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Section 4: First Aid-Measures

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

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice.

Ingestion: If accidentally swallowed wash out mouth with water and obtain immediate medical attention. Keep at rest.

DO NOT induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media:

Recommended: alcohol resistant foam, CO₂, powder, water spray/mist.

Not to be used: non known

Recommendations: As the products contain combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Appropriate self contained breathing apparatus and protective clothing should be worn. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses.

Section 6: Accidental Release Measures

Exclude non essential personnel. Avoid breathing vapours.

Refer to protective measures listed in sections 7 and 8. Collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13). Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the relevant Environment Agency.

Section 7: Handling and Storage

HANDLING: Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Keep containers closed when not in use. Ensure good housekeeping and regular safe removal of waste materials.

THE MANUAL HANDLING OPERATIONS 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 made for 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. Keep away from sources of ignition and direct sunlight. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. Keep out of reach of children.

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Section 8: Exposure Controls/Personal Protection

ENGINEERING MEASURES: Provide good ventilation during application and drying. Avoid inhalation of vapours by the provision of good ventilation. If this is not sufficient to keep airborne concentrations below the relevant Occupational Exposure Limit, suitable respiratory protective equipment must be worn (see 'Occupational Exposure Controls' below).

EXPOSURE LIMITS:

Substance	Occupational Exposure Limits		Notations	
	8 hr LTEL (1)	15 min STEL(2)	ppm	mgm ⁻³
Methanol			250	-
1-Butanol	20			

- (1) Long-term exposure limit - 8 hour time weighted average.
- (2) Short-term exposure limit - 15 mins time weighted average.
- (S) Occupational Exposure Standard (OES)
- (M) Maximum Exposure Limit (MEL)
- (R) Recommended by suppliers
- (A) Allocated limits by analogy with similar materials
- (SK) Risk of absorption through unbroken skin
- (Sen) Capable of causing sensitisation by inhalation

OEL's are taken from the current version of EH40, except those marked (R) or (A) which are assigned by the supplier of the substance.

PERSONAL PROTECTION: 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 the COSHH regulations.

RESPIRATORY PROTECTION: If exposure to hazardous substances identified in section 8 cannot be controlled by the provision of natural ventilation 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 substitutes for full physical protection. They should not be applied once exposure has occurred.

EYE PROTECTION: Eye protection designed to protect against liquid splashes should be worn.

SKIN PROTECTION: Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should 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.

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Section 9: Physical and Chemical Properties

physical state	Thixotropic paste
odour	slight
flash point	117°C (closed cup)
specific gravity	1.35-1.45 @ 25°C
solubility in water	immiscible

Section 10: Stability and Reactivity

Stable under the recommended storage and handling conditions (see section 7). In a fire, hazardous decomposition products such as smoke, carbon dioxide and carbon monoxide may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.

Section 11: Toxicological Information

Not classified as harmful if swallowed. (By calculation)

The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and chronic effects of components from short and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See sections 3 and 15 for details of the resulting hazard classification.

Section 12: Ecological Information

There is no data available on the preparation itself. According to data on the components, it is considered to be: Not Biodegradable, Not potentially Bioaccumulable and Not have any known adverse effects on aquatic organisms tested.

It is not classified as Dangerous for the Environment according to EC criteria.

Do not allow to enter drains or water courses or be deposited where it can affect ground or surface waters. The product is insoluble in water.

Section 13: Disposal Considerations

Do not allow to enter drains or water courses. Wastes, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under the 'Control of Pollution Act' and the 'Environmental Protection Act'. Using information provided in this data sheet, advice should be obtained from the relevant Environment Agency whether the Special Waste Regulations apply.

Section 14: Transport Information

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 an accident or spillage.

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Onward transport subsequent to purchase: Transport to be in accordance with ADR for road, IMDG for sea and ICAO/IATA for air.

Proper shipping name: This product is not classified as dangerous for carriage.

UN number:

Hazard class:

Packing group:

Sub-hazard class:

Section 15: Regulatory Information

The product is determined as not being dangerous according to the CHIP Regulations. However, the following precautions should be observed:

S Phrases

S2 Keep out of reach of children

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and if necessary seek medical advice

S28 After contact with skin, wash immediately with plenty of soap and water or a recognised skin cleaner

S51 Ensure good ventilation during application and while drying

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.

Section 16: Other Information

RISK PHRASES used in section 2

R10 Flammable

R11 Highly flammable

R20 Harmful by inhalation

R22 Harmful if swallowed

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed

R38 Irritating to skin

R37/38 Irritating to respiratory system and skin

R39/23/24/25 Toxic: Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

R41 Risk of serious damage to eyes

R67 Vapours may cause drowsiness and dizziness.

WARNING SYMBOLS used in section 2

C Corrosive

Xn Harmful

REFERENCE DOCUMENTS

STATUTORY

Air Navigation (Dangerous Substances) Regulations

Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations 1996

Carriage of Dangerous Goods by Road Regulations 1996 as amended

Chemical (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP)

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Consumer Protection Act 1987
Control of Pollution (Amendment) Act 1989
Control of Substances Hazardous to Health Regulations 1999
Environmental Act 1995
Environmental Protection (Duty of Care) Regulations 1992
Environmental Protection Act 1990
Factories Act 1961
Health and Safety at Work Act 1974
International Rail/Road Transport - RID and ADR (Current Editions)
Manual Handling Regulations 1992
Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations
Personal Protective Equipment at Work Regulations 1992
Protection of Eyes Regulations 1974
Provision and use of Personal Protective Equipment Regulations 1992
Special Waste Regulations 1996
Waste Management Regulations 1996

APPROVED CODES OF PRACTICE

ACOP - Control of Substances Hazardous to Health/Control of Carcinogenic Substances- HSE Books
ACOP - Waste Management - The Duty of Care

HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTES

EH40 Occupational Exposure Limits
HS(G)53 Respiratory Protective Equipment - A Practical Guide for Users
HS(G)71 Storage of Packaged Dangerous Substances
HS(G)193 COSHH Essentials: steps to control chemicals

BRITISH STANDARDS PUBLICATIONS

BS2091: Respirators for Protection Against Harmful Dusts and Gases
BS2092: Eye Protection for Industrial and Non-Industrial Users
BS4067: Breathing Apparatus
BS4275: Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment
BS7028: Selection, use and Maintenance of Respiratory Protective Equipment

The information contained in the Health and Safety Data Sheet is provided in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. 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 suppliers 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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