GTEC FIRE RATED SILICONE SEALANT

Section 1. Identification of the substance or preparation and company

1.1 Product Identifier

Trade name
GTEC Fire Related Silicone Sealant

UFI

Identification of the product
Silicone sealant

Type of product
Siloxane based sealant

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

Use: Silicone sealant for general use

1.3 Details of the supplier for the safety data sheet

Etex Building Performance Limited
Gordano House
Marsh Lane
Bristol
BS20 0NE
United Kingdom
Tel: 01275 377789

Etex Ireland Limited
Kilkenny Road
Athy
Co Kildare
R14 VN84
Ireland
+353 56 863 1316

e-mail: technical.services@siniat.co.uk

1.4 Emergency telephone number

01275 377789
Opening hours: Monday to Friday 08:15 – 17:00

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC 1272/2008
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 and UK national regulations.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws

2.3 Other hazards

Contains PBT/vPvB on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit:
Octamethylcyclotetrasiloxane (D4) (EC 209-136-7, CAS 556-67-2), Decamethylcyclopentasiloxane (D5) (EC 208-764-9, CAS 541-02-6), Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6)
Contains no REACH Annex XIV substances

Section 3. Composition / information on ingredients

3.2 Mixtures

Hazardous components or components assigned Workplace Exposure Limits (WELs):

TRIMETHOXYVINYLSILANE 1-<5%
EINECS: 220-449-8 CAS: 2768-02-7
REACH: 01-2119513215-52-XXXX
H226, H332, H373

METHANOL 0.1-<1%
EINECS: 200-659-6 CAS: 67-56-1
REACH: 01-2119433307-44-XXXX
H225, H301+H311+H331. H370

BUTAN-1-OL 0-<1%
EINECS: 200-751-6 CAS: 71-36-3
REACH: 01-2119484630-38-XXXX
H226, H302, H315, H318, H335, H336

OCTAMETHYLCYCLOTETRASILOXANE (D4) 0.1-<1%
EINECS: 209-136-7 CAS: 556-67-2
REACH: 01-2119529238-36-XXXX
H226, H361f, H413
PBT/vPvB Subatance

DECAMETHYLCYCLOTETRASILOXANE (D5) 0.1-<1%
EINECS: 208-764-9 CAS: 541-02-6
REACH: 01-2119511367-43-XXXX
PBT/vPvB Subatance

DOECAMETHYLCYCLOTETRASILOXANE (D5) 0.1-<1%
EINECS: 208-762-6 CAS: 540-97-6
REACH01-2119517435-42-XXXX
PBT/vPvB Subatance

Section 4. First aid measures

4.1 Description of first aid measures

If Inhaled:
In case of excessive inhalation remove person to fresh air and seek medical advice. If not breathing, give artificial respiration.

In case of skin contact:
Using clean water, rinse and then wash. using soap & water. Seek medical advice if irritation persists.

In case of eye contact:
Flush copiously for at least 15 minutes. Seek medical advice if irritation occurs.

If swallowed:
Wash out month and drink plenty of clean water. Do not induce vomiting. If unwell seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

Symptoms relating to use
Once cured the material poses no danger to human health. Contains substances which may impair human fertility. During use the following should be noted.

Inhalation
Prolonged and repeated exposure to methanol generated in situ during curing may cause transient ill health effects.

Skin contact
Prolonged skin contact may lead to transient skin irritation and contact dermatitis

Eye Contact
Eye contact may lead to transient eye irritation with profuse eye watering and redness.

Ingestion
Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5. Fire fighting measures

5.1 Extinguishing media

This product is non-flammable. Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which is suitable and appropriate for any surrounding fire.

5.2 Special hazards arising from the substance or mixture

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

5.3 Advice for fire fighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

5.4 Further information

No data available.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours and direct skin contact with material as far as practicable. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses and prevent contamination of soil.

6.3 Methods and materials for containment and cleaning up

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections

For disposal see section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Avoid excessive inhalation of vapours and contact with bare skin.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

8.1 Control parameters

When using sealant the concentration of airborne vapours must be controlled to ensure it does not exceed the Workplace Exposure Limits (WELs) listed in HSE EH40 Workplace Exposure Limits, 4th edition (2020).

Workplace Exposure Limits (WEL)

Substance	WEL 8Hr TWA	WEL 15min STEL
Methanol (Sk)	266 mg/m³	333 mg/m³
Butan-1-ol	[-]	154 mg/m³

DNEL methanol :

End Use: Workers
Exposure routes: Skin contact
Exposure time: 8 h
Value: 40 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Exposure time: 8 h
Value: 260 mg/m3

8.2 Exposure controls

Use in well ventilated areas, with mechanical ventilation in poorly ventilated areas.

Personal Protective Equipment

General

Soiled working clothes should be removed and cleaned and the workplace kept clean.

Respiratory Protection

The concentration of methanol in air released during curing will be unlikely to approach the workplace exposure limit. Should higher exposures be encountered however, use appropriate respiratory protection complying with BS EN Standards. Where a risk assessment in accordance with the hierarchy of controls established within the Chemical Agents Directive shows a requirement for respirators as a means of control use filter type AX.

Eye/face Protection

The use of eye protection (approved to BS EN 166) may be required during use of this material if a risk assessment indicates that contact with eyes is probable or reasonably foreseen.

Skin Protection

Gloves should be worn for protection against irritation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Recommended glove types include Nitrile, PVC and Polythene gloves.

Section 9. Physical and chemical properties

9.1 Information of basic physical and chemical properties

Appearance	Paste
Colour	Pink or black
Odour	Slight
Odour threshold	No data available
pH	n/a
Melting/freezing point	No data available
Initial boiling point	No data available
Flash point	117°C
Evaporation rate	No data available
Flammability	Non-flammable
Upper/lower flammability limits	No data available
Vapour density	No data available
Vapour pressure	No data available
Relative density	1.4g at 20°C
Solubility in water	Insoluble
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	>20.5 mm2/s at 40°C
Explosive properties	No data available
Oxidising properties	None

9.2 Other safety information

No data available

Section 10. Stability and reactivity

Stable under normal conditions. Avoid contact with strong oxidising agents, strong acids and sources of ignition. Material will react and cure on exposure to air as atmospheric moisture will initiate curing.

10.1 Reactivity

No hazardous reactions when stored and handled correctly.

10.2 Chemical stability

Stable at normal temperatures and under recommended storage conditions. 12 month shelf life from date of manufacture.

10.3 Possibility of hazardous reactions

Methanol is formed during curing of sealant in moist air.

10.4 Conditions to avoid

Material will react and cure on exposure to air as atmospheric moisture will initiate curing. Avoid sources of ignition, elevated temperatures.

10.5 Incompatible materials

Avoid contact with strong oxidising agents and strong acids.

10.6 Hazardous decomposition products

Releases methanol on curing.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

Components:
trimethoxyvinylsilane:
Acute oral toxicity: LD50 Oral (Rat): ca. 7.120 mg/kg
Acute inhalation toxicity: LC50: ca. 16,8 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity: LD50: 3.540 mg/kg

methanol:
Acute oral toxicity: Acute toxicity estimate: 100 mg/kg
Method: Converted acute toxicity point estimate

Acute inhalation toxicity: Acute toxicity estimate: 3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Converted acute toxicity point estimate

Acute dermal toxicity: Acute toxicity estimate: 300 mg/kg
Method: Converted acute toxicity point estimate

Skin corrosion/irritation
Not classified based on available information. Not expected to cause any acute skin corrosion or irritation.

Serious eye damage/eye irritation
Not classified based on available information.

Respiratory or skin sensitisation
Not classified based on available information. No known sensitisation potential.

Germ cell mutagenicity
Not classified based on available information. No known mutagenic potential.

Carcinogenicity
Not classified based on available information. No known carcinogenic potential.

Reproductive toxicity
Not classified based on available information. Contains Octamethylcyclotetrasiloxane (D4) which is suspected of harming human fertility.

STOT - single exposure
Not classified based on available information. Inhalation of significant methanol vapours released during curing may cause adverse health effects.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not expected to pose an aspiration hazard due to high viscosity.

Section 12. Ecological information

12.1 Toxicity

Not expected to be harmful to aquatic life

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste product is classified as hazardous waste according to the current regulations. Treat any collected dust in a way that prevents further exposure.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.Dispose of surplus and non-recyclable products via a licensedwaste disposal contractor.

European Waste Catalogue: 08 04 09* waste adhesives and sealants containing organicsolvents or other dangerous substances

Contaminated packaging: 15 01 10* packaging containing residues of or contaminated by dangerous substances

Section 14. Transport information

14.1 UN number

ADR/RID: n/a IMDG: n/a IATA: n/a

14.2 UN proper shipping name

ADR/RID/IMDG/IATA: Not classified as dangerous goods for transport.

14.3 Transport hazard class(es)

ADR/RID: n/a IMDG: n/a IATA: n/a

14.4 Packaging group

ADR/RID: n/a IMDG: n/a IATA: n/a

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6 Special precautions for user

No data available.

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (as amended) and SI 2019:758 (UK REACH).

This product contains legally enforceable Workplace Exposure Limits. As such, a workplace risk assessment must be carried out by the user under the COSHH Regulations 2005 (Control of Substances Hazardous to Health).

In relation to Article 59 of the REACH Regulation, this product contains the following substances of very high concern (SVHC) at a concentration of more than 0.1% by weight: Octamethylcyclotetrasiloxane (D4) (EC 209-136-7, CAS 556-67-2), Decamethylcyclopentasiloxane (D5) (EC 208-764-9, CAS 541-02-6), Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6)

15.2 Chemical safety assessment

No data available.

Section 16. Other information

These products are only intended for use as defined within current Siniat Literature.

This data sheet does not replace the user's own work place risk assessment. It is not intended for the purposes of precise product specification nor warranty.

All information and instructions provided in this data sheet are based on the current state of scientific, technical and legal knowledge at the date indicated on the present data sheet.

The user should ensure that the data sheet being consulted is the current version. To confirm this, or for any additional information or support on intended use, please contact Siniat Technical Services.

Hazard Statements Listed in Section 3

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes severe eye irritation
H319	Causes severe eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H370	Causes damage to organis if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H413	May cause long lasting harmful effect to aquatic life

SDS Revision History:

Version	Date	Revision
1.0	3/6/2021	First Siniat Issue