SAFETY DATA SHEET

# Fire Guard MS 567

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

Fire Guard MS 567

**Product no.**

567

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

**Relevant identified uses of the substance or mixture**

Sealing and filling

**Uses advised against**

None known.

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

**Company and address**

**Dana Lim A/S**
Københavnsvej 220
DK-4600 Køge
Denmark
Tel: +45 56 64 00 70

**Contact person**

Product Safety Department

**E-mail**

info@danalim.dk

**Revision**

19/11/2024

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)
See section 4 “First aid measures”.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

### 2.2. Label elements

**Hazard pictogram(s)**

Not applicable.

**Signal word**

Not applicable.

**Hazard statement(s)**

Not applicable.

**Precautionary statement(s)**

**General**

-

**Prevention**

-

**Response**

-

**Storage**

-

Disposal

-

Hazardous substances

None known.

Additional labelling

EUH208, Contains Trimethoxyvinylsilane. May produce an allergic reaction.
EUH210, Safety data sheet available on request.

2.3. Other hazards

The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and
health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on
the specific conditions.

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---|---|---|---|---|
| Trimethoxyvinylsilane | CAS No.: 2768-02-7<br>EC No.: 220-449-8<br>REACH: 01- 2119513215-52-XXXX<br>Index No.: 014-049-00-0 | <1% | Flam. Liq. 3, H226<br>Skin Sens. 1B, H317<br>Acute Tox. 4, H332 | |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

## SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do

not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

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

No specific requirements.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

> 0°C

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

Trimethoxyvinylsilane

| Duration: | Route of exposure: | DNEL: |
|---|---|---|
| Long term – Systemic effects - General population | Dermal | 630 µg/kg bw/day |
| Long term – Systemic effects - Workers | Dermal | 910 µg/kg bw/day |
| Long term – Systemic effects - General population | Inhalation | 6.8 mg/m³ |
| Long term – Systemic effects - Workers | Inhalation | 27.6 mg/m³ |
| Short term – Systemic effects - General population | Inhalation | 54.4 mg/m³ |
| Short term – Systemic effects - Workers | Inhalation | 73.6 mg/m³ |
| Long term – Systemic effects - General population | Oral | 630 µg/kg bw/day |

PNEC

Trimethoxyvinylsilane

| Route of exposure: | Duration of Exposure: | PNEC: |
|---|---|---|
| Freshwater | | 400 µg/L |
| Freshwater sediment | | 1.5 mg/kg |
| Intermittent release (freshwater) | | 1.21 mg/L |
| Marine water | | 40 µg/L |
| Marine water sediment | | 150 µg/kg |
| Soil | | 60 µg/kg |

## 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure

No specific requirements.

### Individual protection measures, such as personal protective equipment

#### Generally

In the event the work process is within scope of the Danish statutory order on work with code numbered products (Work Inspectorate Order no. 302/1993), then personal protection equipment shall be selected as set out herein. If applicable, please refer to the code number of this product in section 15.
Use only CE marked protective equipment.

#### Respiratory Equipment

| Work situation | Type | Class | Colour | Standards | |
|---|---|---|---|---|---|
| If used in small and very badly ventilated rooms (not relevant if the room is well ventilated) | AX | | Brown | EN14387 | |

#### Skin protection

No specific requirements.

#### Hand protection

| Work situation | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|---|---|---|---|---|---|
| | Nitrile | 0.1 | > 480 | EN374-2, EN388 | |
| When applying the sealant with a caulking gun and when finishing with a joint nail, work can be carried out without gloves if skin contact is avoided. | | | | | |

Eye protection

No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state

Paste

Colour

Various colours

Odour / Odour threshold

Characteristic

pH

No relevant or available data due to the nature of the product.

Density (g/cm$^3$)

1.47

Kinematic viscosity

No relevant or available data due to the nature of the product.

Particle characteristics

No relevant or available data due to the nature of the product.

Phase changes

Melting point/Freezing point (°C)

No relevant or available data due to the nature of the product.

Softening point/range (°C)

No data available.

Boiling point (°C)

No relevant or available data due to the nature of the product.

Vapour pressure

No relevant or available data due to the nature of the product.

Relative vapour density

No relevant or available data due to the nature of the product.

Decomposition temperature (°C)

No relevant or available data due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

No relevant or available data due to the nature of the product.

Flammability (°C)

No relevant or available data due to the nature of the product.

Auto-ignition temperature (°C)

No relevant or available data due to the nature of the product.

Lower and upper explosion limit (% v/v)

No relevant or available data due to the nature of the product.

Solubility

Solubility in water

No relevant or available data due to the nature of the product.

n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

### 9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

No relevant or available data due to the nature of the product.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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

Acute toxicity

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | 7100 mg/kg · |

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Rabbit |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | 3200 mg/kg · |

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Rat |
| Route of exposure: | Inhalation |
| Test: | LD50 |
| Result: | 16,8 mg/l/4h · |

Skin corrosion/irritation

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Rabbit |
| Duration: | 96 hours |
| Result: | No adverse effect observed (Not irritating) |

Serious eye damage/irritation

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Rabbit |
| Duration: | No data available. |
| Result: | Adverse effect observed (Irritating) |

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |

| | |
|---|---|
| Test method: | OECD 406 |
| Species: | Guinea pig |
| Result: | No adverse effect observed (not sensitising) |
| Other information: | Test system: Maximizing test |

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Test method: | OECD 406 |
| Species: | Guinea pig |
| Result: | No adverse effect observed (not sensitising) |
| Other information: | Test system: Buehler Test |

### Germ cell mutagenicity
Based on available data, the classification criteria are not met.

### Carcinogenicity
Based on available data, the classification criteria are not met.

### Reproductive toxicity
Based on available data, the classification criteria are not met.

### STOT-single exposure
Based on available data, the classification criteria are not met.

### STOT-repeated exposure
Based on available data, the classification criteria are not met.

### Aspiration hazard
Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

### Long term effects
None known.

### Endocrine disrupting properties
This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### Other information
None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 191 mg/l · |

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Daphnia |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | 169 mg/l · |

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Daphnia |
| Duration: | 21 days |
| Test: | NOEC |
| Result: | 25 mg/l · |

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | NOEC |
| Result: | 25 mg/l · |

### 12.2. Persistence and degradability

| | |
|---|---|
| Product/substance | Trimethoxyvinylsilane |
| Conclusion: | Not biodegradable |

### 12.3. Bioaccumulative potential
Based on available data, the classification criteria are not met.

### 12.4. Mobility in soil
No data available.

### 12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects
None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods
Product is not covered by regulations on dangerous waste.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

| | |
|---|---|
| 08 04 10 | Waste adhesives and sealants other than those mentioned in 08 04 09 |

### Specific labelling
Not applicable.

### Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|---|---|---|---|---|---|---|
| ADR | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

* Packing group

** Environmental hazards

### Additional information
Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user
Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments
No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application
No special.

#### Demands for specific education
No specific requirements.

#### SEVESO - Categories / dangerous substances
Not applicable.

#### REACH, Annex XVII
Trimethoxyvinylsilane is subject to REACH restrictions (entry 40).

#### Regulation on work involving coded products
Code number (1993): 00-1.

#### Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre med senere ændringer.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H317, May cause an allergic skin reaction.
H332, Harmful if inhaled.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

Not applicable.

The safety data sheet is validated by

Product Safety Department

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: DK-en