

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Fire Guard S 564

**Product no.**

-

**REACH registration number**

Not applicable

**Unique formula identifier (UFI)**

-

### 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**

-

The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

Dana Lim A/S  
Københavnsvej 220  
DK-4600 Køge  
Denmark  
phone: +45 56 64 00 70  
fax: +45 56 64 00 90

**Contact person**

Product Safety Department

**E-mail**

info@danalim.dk

**SDS date**

2018-11-21

**SDS Version**

4.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Eye Irrit. 2; H319

See full text of H-phrases in section 2.2.

### 2.2. Label elements

▼ **Hazard pictogram(s)**



**Signal word**

Warning

According to EC-Regulation 2015/830

### Hazard statement(s)

Causes serious eye irritation. (H319)

### ▼Precautionary statements

**General** If medical advice is needed, have product container or label at hand. (P101).  
Keep out of reach of children. (P102).

**Prevention** -  
Wear protective gloves/eye protection. (P280).

**Response** If eye irritation persists: Get medical advice/attention. (P337+P313).  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).

**Storage** -

**Disposal** -

### ▼Identity of the substances primarily responsible for the major health hazards

Not applicable

### ▼2.3. Other hazards

Not applicable

### ▼Additional labelling

Not applicable

### ▼Additional warnings

Not applicable

### VOC (volatile organic compound)

Not applicable

## SECTION 3: Composition/information on ingredients

### ▼3.1/3.2. Substances/Mixtures

NAME: Trimethoxyvinylsilane  
IDENTIFICATION NOS.: CAS-no: 2768-02-7 EC-no: 220-449-8 REACH-no: 01-2119513215-52-0003  
CONTENT: 1 - <2.5%  
CLP CLASSIFICATION: Flam. Liq. 3, Acute Tox. 4  
H226, H332

NAME: bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium  
IDENTIFICATION NOS.: CAS-no: 83877-91-2 EC-no: 281-161-6  
CONTENT: 1 - <2.5%  
CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3, Skin Irrit. 2, Eye Dam. 1  
H226, H315, H318, H335, H336

NAME: Methanol  
IDENTIFICATION NOS.: CAS-no: 67-56-1 EC-no: 200-659-6 REACH-no: 01-2119433307-44 Index-no: 603-001-00-X  
CONTENT: 0.25 - <1%  
CLP CLASSIFICATION: Flam. Liq. 2, Acute tox. 3, STOT SE 1  
H225, H301, H311, H331, H370  
NOTE: S L

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.  
S = Organic solvent L = European occupational exposure limit.

### Other information

ATEmix(inhale, vapour) > 20  
ATEmix(inhale, dust/mist) > 5  
ATEmix(inhale, gas) > 20000  
ATEmix(dermal) > 2000  
ATEmix(oral) > 2000  
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1,9992 - 2,9988  
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,2 - 0,3

## 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. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). 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**

Bring the person into fresh air and stay with him/her.

▼ **Skin contact**

Wash contaminated skin with water.

▼ **Eye contact**

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

▼ **Ingestion**

Provide plenty of water for the person to drink and stay with him/her. 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 victim 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**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

**Information to medics**

Bring this safety data sheet.

## SECTION 5: Firefighting measures

▼ **5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

▼ **5.2. Special hazards arising from the substance or mixture**

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. 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**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

▼ **6.1. Personal precautions, protective equipment and emergency procedures**

No specific requirements.

▼ **6.2. Environmental precautions**

No specific requirements.

▼ **6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

▼ **6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

▼ **7.1. Precautions for safe handling**

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

▼ **7.2. Conditions for safe storage, including any incompatibilities**

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Storage temperature**

Frost free

▼ **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**

▼ **OEL**

Methanol

Long-term exposure limit (8-hour TWA reference period): 200 ppm | 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 250 ppm | 333 mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

▼ **DNEL / PNEC**

No data available

**8.2. Exposure controls**

▼ Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

**General recommendations**

▼ Observe general occupational hygiene standards.

**Exposure scenarios**

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

▼ **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ **Appropriate technical measures**

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

▼ **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. Always wash hands, forearms and face.

▼ **Measures to avoid environmental exposure**

No specific requirements.

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



**Generally**

Use only CE marked protective equipment.

▼ **Respiratory Equipment**

Not relevant if the room is well ventilated. If used in small and very badly ventilated rooms a respirator may be used. In this case an AX-filter is recommended.

▼ **Skin protection**

Dedicated work clothing should be worn.

▼ **Hand protection**

Nitrile rubber

Material thickness: > 0,4 mm.

Breakthrough time: See the manufacturer's instructions.

When applying the sealant with a caulking gun and when finishing with a joint nail, work can be carried out

According to EC-Regulation 2015/830

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**

Form	Pasta
Colour	Gray
Odour	Faint
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	> 20,5 mm <sup>2</sup> /s
Density (g/cm <sup>3</sup> )	1,35

▼ **Phase changes**

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure (20°C)	0,01 hPa
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

▼ **Data on fire and explosion hazards**

Flash point (°C)	61
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

**Solubility**

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

**9.2. Other information**

Solubility in fat (g/L)	No data available.
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## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No data available

▼ **10.2. Chemical stability**

The product is stable under the conditions, noted in the section "Handling and storage".

▼ **10.3. Possibility of hazardous reactions**

Nothing special

▼ **10.4. Conditions to avoid**

Nothing special

▼ **10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

▼ **Acute toxicity**

Substance: Trimethoxyvinylsilane  
 Species: Rat  
 Test: LD50  
 Route of exposure: Oral  
 Result: 7100 mg/kg

Substance: Trimethoxyvinylsilane  
 Species: Rabbit

According to EC-Regulation 2015/830

Test: LD50  
Route of exposure: Dermal  
Result: 3200 mg/kg

Substance: Trimethoxyvinylsilane  
Species: Rat  
Test: LD50  
Route of exposure: Inhalation  
Result: 16,8 mg/l/4h

#### ▼ **Skin corrosion/irritation**

Data on substance: Trimethoxyvinylsilane  
Organism: Rabbit  
Duration of Exposure: 96 h  
Result: Not irritating

#### **Serious eye damage/irritation**

Causes serious eye irritation.

Data on substance: Trimethoxyvinylsilane  
Organism: Rabbit  
Result: Irritating

#### **Respiratory or skin sensitisation**

No data available. Data on substance: Trimethoxyvinylsilane  
Organism: Guinea pig  
Result: Not sensitising

#### **Germ cell mutagenicity**

No data available.

#### **Carcinogenicity**

No data available.

#### **Reproductive toxicity**

No data available.

#### **STOT-single exposure**

No data available.

#### **STOT-repeated exposure**

No data available.

#### **Aspiration hazard**

No data available.

#### ▼ **Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## SECTION 12: Ecological information

### ▼ **12.1. Toxicity**

Substance: Trimethoxyvinylsilane  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 191 mg/l

Substance: Trimethoxyvinylsilane  
Species: Daphnia  
Test: EC50  
Duration: 48 h  
Result: 169 mg/l

Substance: Trimethoxyvinylsilane  
Species: Daphnia  
Test: NOEC  
Duration: 21 d  
Result: 25 mg/l

Substance: Trimethoxyvinylsilane  
Species: Algae  
Test: NOEC  
Duration: 72 h

According to EC-Regulation 2015/830

Result: 25 mg/l

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Trimethoxyvinylsilane	No	No data available	No data available

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
No data available.			

### 12.4. Mobility in soil

No data available

### ▼ 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### ▼ 12.6. Other adverse effects

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

#### ▼ Waste

EWC code

08 04 10

waste adhesives and sealants other than those mentioned in 08 04 09

#### ▼ Specific labelling

Not applicable

#### ▼ Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

#### ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

#### IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

#### IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-  
**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### ▼ Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education

-

#### Additional information

Not applicable

#### Seveso

Seveso III Part 2: Methanol

#### Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

#### ▼ Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H331 - Toxic if inhaled.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H370 - Causes damage to organs<sup>a</sup>.

#### The full text of identified uses as mentioned in section 1

-

#### Additional label elements

Not applicable

#### Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)



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.

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.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

Robert Pedersen

**Date of last essential change**

**(First cipher in SDS version)**

2016-05-02(3.0)

**Date of last minor change**

**(Last cipher in SDS version)**

2016-05-02