

## SAFETY DATA SHEET

## Window Putty 685

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

## 1.1. Product identifier

## Trade name

Window Putty 685

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

## Relevant identified uses of the substance or mixture

For puttying and repairing.

## 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

06/09/2024

## SDS Version

2.0

## Date of previous version

08/05/2024 (2.0)

## 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

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

## Hazard pictogram(s)

Not applicable.

## Signal word

Not applicable.

## Hazard statement(s)

Harmful to aquatic life with long lasting effects. (H412)

## Precautionary statement(s)

## General

-

## Prevention

Avoid release to the environment. (P273)

## Response

-

## Storage

-

#### Disposal

Dispose of contents/container in accordance with local regulation (P501)

#### Hazardous substances

None known.

#### Additional labelling

EUH208, Contains Trimethoxyvinylsilane. May produce an allergic reaction.

#### 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) 2018/605.

### 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 EC No.: 220-449-8 REACH: 01- 2119513215-52-XXXX Index No.: 014-049-00-0	<1%	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Acute Tox. 4, H332	
Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]	CAS No.: 36443-68-2 EC No.: 253-039-2 REACH: 01-2119956160-44-0000 Index No.:	<0.25%	Aquatic Chronic 1, H410 (M=10)	

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

#### Other information

nano: nanoform

### 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.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

Some metal oxides

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (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

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 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

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

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

Dry, cool and well ventilated

#### 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

methanol (released in small quantities during vulcanisation)

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 260

Long term exposure limit (8 hours) (ppm): 200

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 520

Short term exposure limit (15 minutes) (ppm): 400

Annotations:

E = Substance has an EC limit.

H = The substance can be absorbed through the skin.

Statutory order 291 on exposure limits for substances and mixtures (19/03/2024)

#### DNEL

Trimethoxyvinylsilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	630 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	910 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	6.8 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	27.6 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	54.4 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	73.6 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	630 µg/kgbw/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

Keep damming materials near the workplace. If possible, collect spillage during work.

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

**Generally**

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
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.	Nitrile	0.1	> 480	EN374-2, EN388



**Eye protection**

No specific requirements.

**SECTION 9: Physical and chemical properties**

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

**Physical state**

Paste

**Colour**

According to specification

**Odour / Odour threshold**

Faint

**▼ pH**

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

**Density (g/cm<sup>3</sup>)**

1,41-1,45 (20 °C)

**▼ 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

Insoluble

##### ▼ 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

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

### 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 ·

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: >2000 mg/kg ·

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Species: Rat  
 Route of exposure: Dermal  
 Test: LD50  
 Result: >2000 mg/kg ·

#### Skin corrosion/irritation

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

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Test method: OECD 404  
 Species: Rabbit  
 Duration: No data available.  
 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)

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Test method: OECD 404  
 Species: Rabbit  
 Duration: No data available.  
 Result: No adverse effect observed (Not irritating)

#### ▼ Respiratory sensitisation

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Species: Guinea pig  
 Description: No adverse effect observed  
 Result: No adverse effect observed (not sensitising)

#### ▼ 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

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Species: Guinea pig  
 Description: No adverse effect observed  
 Result: No adverse effect observed (not sensitising)

#### ▼ Germ cell mutagenicity

Product/substance Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]  
 Description: No adverse effect observed  
 Conclusion: No adverse effect observed

#### 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 ·

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	43 mg/l ·

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Product/substance	Trimethoxyvinylsilane
Conclusion:	Not biodegradable

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Conclusion:	Not biodegradable

### 12.3. Bioaccumulative potential

Product/substance	Ethylenbis(oxyethylen)bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionat]
Conclusion:	No potential for bioaccumulation



#### 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

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

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

methanol (released in small quantities during vulcanisation)

##### ▼ REACH, Annex XVII

Trimethoxyvinylsilane is subject to REACH restrictions (entry 40).

##### Additional information

Not applicable.

##### Sources

Executive Order no. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances.  
 Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.  
 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

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.  
 H317, May cause an allergic skin reaction.  
 H318, Causes serious eye damage.  
 H331, Toxic if inhaled.  
 H332, Harmful if inhaled.  
 H336, May cause drowsiness or dizziness.  
 H361fd, Suspected of damaging fertility or the unborn child.  
 H370, Causes damage to organs.  
 H371, May cause damage to organs.  
 H410, Very toxic to aquatic life with long lasting effects.

#### 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

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

#### 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