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

### 1.1 Product identifier

**Grafen Professional Neutral Silicone 280 ml/600 ml**

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

**Relevant identified uses:** Silicone sealant. Designed to fulfill the connections, joints and gaps between building elements and structures of brick, concrete, plastic, brass, steel and sheet metal. The seals in the refrigeration industry, the automotive and electrical and electronic equipment.

**Uses advised against:** no data available

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

<b>Supplier:</b>	<b>Madejski Sp. J.</b>
<b>Street address:</b>	ul. Makuszyńskiego 28
<b>Country/Postcode:</b>	Poland, 31-752 Kraków
<b>Telephone number:</b>	+48 (12) 643 67 67

<b>E-mail</b>	info@madejski.com.pl
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<b>1.4 Emergency telephone number:</b>	112
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification of the mixture Hazard	Regulation (EC) No 1272/2008 (CLP)
Physical and chemical properties	Not classified
Human	Skin Irrit.2 H315 Skin Sens.1 H317 Eye Irrit.2 H319
Environment	Not classified

### 2.2 Label elements:


Contains: Dimethylsiloxane, Hydroxy-terminated, Methyl-O, O'-butan-2-on-trioximo-silane, Tris(etilmetilketoksimato)vinilsilan, 3-(2-Aminoethylamino)propyltrimethoxysilane, Tetrapropyl orthosilicate

#### Supplemental information on the label:

Not applicable

#### Hazard pictograms:



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**Signal word:**  
**Warning**

**Hazard statements:**

**H315** Causes skin irritation.  
**H317** May cause an allergic skin reaction.  
**H319** Causes serious eye irritation.

**Precautionary statements:**

**P102** Keep out of reach of children.  
**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.  
**P272** Contaminated work clothing should not be allowed out of the workplace.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P302+P352** IF ON SKIN: Wash with plenty of soap and water  
**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
**P337 + P313** If eye irritation persists: Get medical advice/attention.  
**P332+P313** If skin irritation occurs: Get medical advice/attention.  
**P362+364** Take off contaminated clothing and wash before reuse.  
**P501** Dispose of contents/container in accordance with applicable regulations.

**2.3 Other hazards**


This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances:** not applicable

**3.2 Mixtures:**

Name	Identifiers	[% weight]	Classification according to Regulation (EC) No 1278/2008 (CLP).
<b>Dimethyl Siloxane,Hydroxy-terminated</b>	Index No: --- EC No: --- CAS No: 70131-67-8 REACH Registration No:---	>20	Skin Irrit.2 H315 Eye Irrit.2 H319
<b>Tris(etilmetilketoksimate)vinilsilan</b>	Index No: --- WE No: 218-747-8 CAS No: 2224-33-1 REACH Registration No:---	<1	Skin Irrit.2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318
<b>Methyl-O,O',O''-butan 2-on-trioximo-silane</b>	Index No: --- WE No: 245-366-4 CAS No: 22984-54-9 REACH Registration No:---	1-5	Skin Irrit.2 H315 Skin Sens.1 H317 Eye Irrit.2 H319
<b>3-(2-Aminoethylamino)propyltrimethoxysilane</b>	Index No: --- WE No: 217-164-6 CAS No: 1760-24-3 REACH Registration No:---	1-5	Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 4 H332 Aquatic Chronic 2H411

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<b>Tetrapropyl orthosilicate</b>	Index No: --- WE No: 211-659-0 CAS No: 682-01-9 REACH Registration No:---	<1	Skin Irrit. 2 H315 Eye Irrit. 2 H319
<b>Di-n-octyltin oxide</b>	Index No: --- WE No: 212-791-1 CAS No: 870-08-6 REACH Registration No:---	<1	STOT RE 2 H373 Aquatic Chronic 4 H413

The Full Text for all H-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Following eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

**Following inhalation:** Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

**Following skin contact:** Immediately remove contaminated clothing. Wash the skin with soap and water. Contaminated clothing should be washed before re-use. Get medical attention promptly if symptoms occur after washing.

**Following ingestion:** Do not induce vomiting. Immediately rinse mouth. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Seek medical advice. Provide ventilation.

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

No further relevant information available.

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

If any symptoms persist seek medical advice and show the msds or label.

**Notes for the doctor:** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** foam, carbon dioxide, dry powder, water spray

**Unsuitable extinguishing media:** do not use water in a jet.

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

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases, formaldehyde.

### 5.3 Advice for firefighters


**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus.

**Protective equipment for fire-fighters:** Keep containers cool by spraying with water. If possible remove containers from the danger zone. Prevent from spreading or entering drains, ditches or rivers. Dispose of released and contained material in accordance with local regulations.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:**

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Removed from the danger area all persons not involved in the emergency. If necessary, order the evacuation. Avoid contact with skin, eyes. Avoid inhalation of vapours / aerosols. Provide ventilation.

**For emergency responders:**

Wear protective clothing as described in Section 8.

**6.2 Environmental precautions**

Do not discharge into drains, water courses or into the ground. Local authorities should be advised if any exposure to the environment occurs.

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

Absorb with liquid-binding material (eg. sawdust, sand). The spilled product produces an extremely slippery surface. Be sure to clean completely. Dispose of waste according to the applicable local and national regulation.

**6.4 Reference to other sections**

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures:**

Use only in a well-ventilated area. Avoid breathing vapor or aerosol. Avoid contact with eyes and skin. When handling, use appropriate personal protective equipment (see Section 8). When using do not eat or drink.

**Advice on general occupational hygiene:**

Ensure good ventilation/exhaustion at the workplace. When using do not eat, drink or smoke. Wash hand before and after work. Contaminated clothing should be washed before re-use. Avoid spillage.

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

Store in the original, properly labeled, tightly closed containers in a dry, well-ventilated storage area away from oxidizers and acids.

**7.3 Specific end use(s)**


No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

International Limits Values:

Substance	CAS No:	Basis / Country	Short Time Value [mg/m <sup>3</sup> ]	Short Time Value [ppm-Calculated]	Time Weighted Average Exposure Limit [mg/m <sup>3</sup> -8 h]	Time Weighted Average Exposure Limit [ppm-Calculated]
Di-n-octyltin oxide	870-08-6	Germany European Union	0,02 -	0,004 -	0,01 -	0,002 -

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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

#### Tris(etilmetilketoksimito)vinilsilan

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No hazard identified	0.075 mg/kg bw/day
Inhalation	No hazard identified	1.06 mg/m <sup>3</sup>	No hazard identified	0.26 mg/m <sup>3</sup>
Dermal	No data available	0.15 mg/kg bw/day	No data available	0.075 mg/kg bw/day

#### Methyl-O,O',O"-butan 2-on-trioximo-silane

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No hazard identified	1.6 mg/kg bw/day
Inhalation	No data available	0.988 mg/m <sup>3</sup>	No data available	0.174 mg/m <sup>3</sup>
Dermal	No data available	0.14 mg/kg bw/day	No data available	0.05 mg/kg bw/day

#### 3-(2-Aminoethylamino)propyltrimethoxysilane

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	2.5 mg/kg bw/day
Inhalation	No hazard identified	35.3 mg/m <sup>3</sup>	No hazard identified	8.7 mg/m <sup>3</sup>
Dermal	Medium hazard	5 mg/kg bw/day	Medium hazard	2.5 mg/kg bw/day


#### Tetrapropyl orthosilicate

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	12.1 mg/kg bw/day
Inhalation	No hazard identified	85 mg/m <sup>3</sup>	No hazard identified	21 mg/m <sup>3</sup>
Dermal	No hazard identified	12 mg/kg bw/day	No hazard identified	6 mg/kg bw/day

#### Di-n-octyltin oxide

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	0.001 mg/kg bw/day
Inhalation	0.03 mg/m <sup>3</sup>	0.03 mg/m <sup>3</sup>	No hazard identified	No hazard identified
Dermal	No hazard identified	No hazard identified	No hazard identified	No hazard identified

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

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### Tris(etilmetilketoksimato)vinilsilan

Environmental protection target	PNEC
Freshwater	0.019 mg/L
Freshwater sediments	1 136.562 mg/kg sediment dw
Marine water	0.002 mg/L
Marine sediments	113.656 mg/kg sediment dw
Food chain	No data available
Microorganisms in sewage treatment	No data available
Soil (agricultural)	133.8 mg/kg soil dw
Air	No data available

### Methyl-O,O',O''-butan 2-on-trioximo-silane

Environmental protection target	PNEC
Freshwater	0.26 mg/L
Freshwater sediments	1.02 mg/kg sediment dw
Marine water	0.026 mg/L
Marine sediments	0.102 mg/kg sediment dw
Food chain	0.02 g/kg food
Microorganisms in sewage treatment	No data available
Soil (agricultural)	0.05 mg/kg soil dw
Air	No data available

### 3-(2-Aminoethylamino)propyltrimethoxysilane


Environmental protection target	PNEC
Freshwater	0.062 mg/L
Freshwater sediments	0.22 mg/kg sediment dw
Marine water	0.006 mg/L
Marine sediments	0.022 mg/kg sediment dw
Food chain	No data available
Microorganisms in sewage treatment	No data available
Soil (agricultural)	0.009 mg/kg soil dw
Air	No data available

### Tetrapropyl orthosilicate

Environmental protection target	PNEC
Freshwater	10 mg/L
Freshwater sediments	52 mg/kg sediment dw
Marine water	1 mg/L
Marine sediments	5.2 mg/kg sediment dw
Food chain	No data available
Microorganisms in sewage treatment	No data available
Soil (agricultural)	4.5 mg/kg soil dw
Air	No data available

### Di-n-octyltin oxide

Environmental protection target	PNEC
Freshwater	No hazard identified
Freshwater sediments	No hazard identified
Marine water	No hazard identified
Marine sediments	No hazard identified

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Food chain	No hazard identified
Microorganisms in sewage treatment	No hazard identified
Soil (agricultural)	No hazard identified
Air	No hazard identified

## 8.2 Exposure controls

### Appropriate engineering controls

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

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

#### Eye/face protection:

Avoid contact with eyes. Wear approved chemical safety goggles where eye exposure is reasonably probable.

#### Skin protection:

Hand protection: Use protective gloves made of: nitrile or butyl rubber. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other: Wear protective clothing. Contaminated clothing should be washed before re-use.

**Respiratory protection:** Respiratory protection must be used if air contamination exceeds acceptable level. It is recommended to use respiratory equipment with filter.


### Environmental exposure controls

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Do not discharge into drains, water courses or into the ground. Local authorities should be advised if any exposure to the environment occurs.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Paste
Odour	Characteristic Odor
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1,33 ± 0,03 g/cm <sup>3</sup>
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available

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Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

#### 9.2 Other information:

No data available.

### SECTION 10: Stability and Reactivity

#### 10.1 Reactivity

Not reactive under normal conditions of storage and use.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Can react with strong oxidising agents, acids and metals such as iron. Can react violently if in contact with electrophiles such as ferric chloride.

#### 10.4 Conditions to avoid

Avoid release to the environment. Avoid heat, flames and other sources of ignition.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

Cures in the presence of water or moisture, releasing a small amount of methylethylketoxime. If this product is heated to  $>150^{\circ}\text{C}$ , traces quantities of formaldehyde may be released and adequate ventilation is required.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

No data available for the mixture

##### Tris(etilmetilketoksimato)vinilsilan

LD50 (rat, oral)	>2000 mg/kg bw
LC50 (inhalation)	No data available
LD50 (rat, dermal)	>2009 mg/kg

##### 3-(2-Aminoethylamino)propyltrimethoxysilane

LD50 (rat, oral)	7,46 mg/kg bw
LC50 (inhalation)	No data available
LD50 (rabbit, dermal)	>16 mL/kg


##### Tetrapropyl orthosilicate

LD50 (rat, oral)	>2000 mg/kg bw
LC50 (rat, inhalation)	10 mg/L
LD50 (dermal)	No data available

##### Di-n-octyltin oxide

LD50 (rat, oral)	>4000 mg/kg bw
LC50 (inhalation)	No data available
LD50 (rat, dermal)	>2000 mg/kg



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#### **Skin corrosion/irritation**

The mixture was classified as an irritant to the skin.

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

The mixture was classified as an irritant to the eyes.

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

The mixture was classified, to be likely to cause an allergic skin reaction.

#### **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.

#### **Additional information**

No further relevant information available.

### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

No data available for the mixture

##### **Tris(etilmetilketoksimat)vinilsilan**

Fish	LC50	119,94 mg/L	exposition time: 96h
Aquatic invertebrates	EC50	214,08 mg/L	exposition time: 48h
Algae and bacteria			No data available

##### **3-(2-Aminoethylamino)propyltrimethoxysilane**

Fish (Oncorhynchus mykiss)	LC50	213 ppm	exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EC50	90 mg/L	exposition time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	EC50	8,8 mg/L	exposition time: 72h

##### **Tetrapropyl orthosilicate**

Fish (Brachydanio rerio)	LC50	>245 mg/L	exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EL50	4,5 mg/L	exposition time: 48h
Algae and bacteria (Scenedesmus subspicatus)	EC50	>161 mg/L	exposition time: 72h

##### **Di-n-octyltin oxide**

Fish (Danio rerio)	LC50	>0,09 mg/L	exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EC50	0,21 mg/L	exposition time: 48h
Algae and bacteria (Scenedesmus subspicatus)	EC50	>0,002 mg/L	exposition time: 72h

#### **12.2 Persistence and degradability**

No further relevant information available.


#### **12.3 Bioaccumulative potential**

No further relevant information available.

#### **12.4 Mobility in soil**

No further relevant information available.

#### **12.5 Results of PBT and vPvB assessment**

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This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Other adverse effects

No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

#### Proposed waste code

**08 04 09\*** Waste adhesives and sealants containing organic solvents or other hazardous substances

### SECTION 14: Transport Information

	ADR/RID	IMDG	IATA
<b>14.1. UN number</b>	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>	Not applicable	Not applicable	Not applicable
<b>14.6. Special precautions for user</b>	Not applicable	Not applicable	Not applicable
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable	Not applicable	Not applicable

### SECTION 15: Regulatory information

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

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

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),

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 with amendments.


2014/955/EU: Commission Decision of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council Text with EEA relevance

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### SECTION 16: Other information

Classification according to Regulation (EC) No. 1272/2008

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Classification procedure: calculation method

Skin Irrit.2 H315

Skin Sens.1 H317

Eye Irrit.2 H319

**Relevant H-statements (number and full text)**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H4111 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life

**Additional Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Product Safety Data Sheet to their own Product Safety Data Sheet.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary –even for the same product between different countries, reflecting the different compliance requirements.