



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 12/9/2017

Version: 3

Language: en-GB,IE

Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 1 of 10

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

#### 1.1 Product identifier

Trade name: Essential Glue  
This safety data sheet pertains to the following products:  
40915000  
40916000

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

General use: Adhesive

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

Company name: Grohe AG  
Street/POB-No.: Industriepark Edelburg  
Postal Code, city: 58675 Hemer  
Germany  
WWW: www.grohe.com  
E-mail: info@grohe.com  
Telephone: +49 (0)2372 93-0  
Telefax: +49 (0)2372 93-1322  
Dept. responsible for information:  
Telephone: +49 (0)2372 93-2037  
sustainability@grohe.com

#### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

#### 2.2 Label elements

##### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

#### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available



# SAFETY DATA SHEET

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Revision date: 12/9/2017  
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Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 2 of 10

### SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 220-449-8 CAS 2768-02-7	Trimethoxyvinylsilane	< 3 %	Flam. Liq. 3; H226. Acute Tox. 4; H332.
EC No. 258-207-9 CAS 52829-07-9	Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate	< 1 %	Eye Dam. 1; H318. Aquatic Acute 1; H400. Aquatic Chronic 2; H411.

Full text of H- and EUH-statements: see section 16.

Customs tariff number: 32141010

Additional information: Contains: Calcium carbonate, Titanium dioxide, Silicon dioxide, Aluminium oxide: The maximum workplace exposure limits are, where necessary, listed in section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult doctor afterwards.

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

No data available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media:

Water fog, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet



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Revision date: 12/9/2017  
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Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 3 of 10

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

May form dangerous gases and vapours in case of fire.  
In case of fire may be liberated: nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Avoid contact with the substance. Do not breathe mist/vapours/spray. Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

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

Take up mechanically, placing in appropriate containers for disposal. Thoroughly clean surrounding area.

Additional information: Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with the substance. Do not breathe mist/vapours/spray. Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

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

Requirements for storerooms and containers:

Storage temperature: 5 °C up to 25 °C.  
Protect from frost. Protect from heat and direct sunlight.  
Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage: Do not store together with food.

### 7.3 Specific end use(s)

No information available.



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Revision date: 12/9/2017

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Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 4 of 10

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
471-34-1	Calcium carbonate	Great Britain: WEL-TWA	10 mg/m <sup>3</sup> (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m <sup>3</sup> (respirable fraction)
13463-67-7	Titanium dioxide	Great Britain: WEL-TWA	10 mg/m <sup>3</sup> (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m <sup>3</sup> (respirable fraction)
		Ireland: 8 hours	10 mg/m <sup>3</sup> (inhalable fraction)
		Ireland: 8 hours	4 mg/m <sup>3</sup> (respirable fraction)
7631-86-9	Silicon dioxide	Great Britain: WEL-TWA	2.4 mg/m <sup>3</sup> (Silica, amorphous; respirable fraction)
		Great Britain: WEL-TWA	6 mg/m <sup>3</sup> (Silica, amorphous; inhalable fraction)
		Ireland: 8 hours	2.4 mg/m <sup>3</sup> Silicon dioxide, amorphous, respirable fraction
		Ireland: 8 hours	6 mg/m <sup>3</sup> Silicon dioxide, amorphous, inhalable fraction
1344-28-1	Aluminium oxide	Great Britain: WEL-TWA	10 mg/m <sup>3</sup> (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m <sup>3</sup> (respirable fraction)
		Ireland: 8 hours	10 mg/m <sup>3</sup> (inhalable fraction)
		Ireland: 8 hours	4 mg/m <sup>3</sup> (respirable fraction)

DNEL/DMEL: Information about Trimethoxyvinylsilane  
Systemic effects:  
DNEL Long-term, workers, dermal: 0.69 mg/kg bw/d  
DNEL Long-term, workers, inhalative: 4.9 mg/m<sup>3</sup>  
DNEL Long-term, consumers, oral: 0.3 mg/kg bw/d  
DNEL Long-term, consumers, dermal: 0.3 mg/kg bw/d  
DNEL Long-term, consumers, inhalative: 1.04 mg/m<sup>3</sup>  
DNEL Short-term, workers, dermal: 0.69 mg/kg bw/d  
DNEL Short-term, workers, inhalative: 4.9 mg/m<sup>3</sup>  
DNEL Short-term, consumers, dermal: 26.9 mg/kg bw/d  
DNEL Short-term, consumers, inhalative: 93.4 mg/m<sup>3</sup>

PNEC: Information about Trimethoxyvinylsilane:  
PNEC water (freshwater): 0.34 mg/L  
PNEC water (marine water): 0.034 mg/L  
PNEC water (intermittent release): 3.4 mg/L  
PNEC freshwater sediment: 0.27 mg/kg  
PNEC marine sediment: 0.12 mg/kg  
PNEC soil: 0.046 mg/kg  
PNEC sewage treatment plant: 110 mg/L

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.



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according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 12/9/2017  
Version: 3  
Language: en-GB,IE  
Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 5 of 10

### Personal protection equipment

#### Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type P according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection: Protective gloves according to EN 374. During splash contact: Glove material: polychloroprene - Layer thickness: > 1 mm Breakthrough time: > 60 min In case of prolonged or frequently repeated skin contact: polychloroprene or natural rubber - Layer thickness: > 1 mm Breakthrough time: > 480 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures: Do not breathe mist/vapours/spray. Avoid contact with the substance. Avoid contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C and 101.3 kPa: solid  
Form: pasty  
Colour: white
- Odour: characteristic  
Odour threshold: No data available
- pH value: not applicable
- Melting point/freezing point: No data available  
Initial boiling point and boiling range: No data available  
Flash point/flash point range: Not applicable  
Evaporation rate: No data available  
Flammability: No data available  
Explosion limits: No data available  
Vapour pressure: No data available  
Vapour density: No data available  
Density: 1.5 g/cm<sup>3</sup>  
Solubility: No data available  
Partition coefficient: n-octanol/water: No data available  
Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
Viscosity, dynamic: 255000 mPa\*s



# SAFETY DATA SHEET

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Revision date: 12/9/2017  
Version: 3  
Language: en-GB,IE  
Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 6 of 10

Explosive properties: No data available  
Oxidizing characteristics: No data available

### 9.2 Other information

Additional information: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to 10.3

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 12/9/2017  
Version: 3  
Language: en-GB,IE  
Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 7 of 10

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.  
Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix calculated: > 5000 mg/kg  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix calculated: > 5000 mg/kg  
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
ATEmix calculated (Dusts/mist): > 15 mg/L  
Skin corrosion/irritation: Lack of data.  
Eye damage/irritation: Lack of data.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
Germ cell mutagenicity/Genotoxicity: Lack of data.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Lack of data.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

Other information: Information about Trimethoxyvinylsilane:  
LD50 Rat, oral: 7,120 mg/kg (OECD 401, read across)  
LD50 Rabbit, dermal: 3,540 mg/kg  
LC50 Rat, inhalative (vapour): 16.8 mg/L/4h (OECD 403, read across)  
For carcinogenic effects:  
Information about CAS No. 7631-86-9  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
Information about CAS No. 13463-67-7  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

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## Essential Glue

Material number 40915000/40916000

Page: 8 of 10

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Information about Trimethoxyvinylsilane:  
Fish toxicity:  
LC50 Oncorhynchus mykiss: 191 mg/L/96h (OECD 203, read across)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202, read across)  
Algae toxicity:  
EC50: > 100 mg/L/72h (OECD 201, read across)  
Bacterial toxicity:  
EC50: > 2,500 mg/L/3h (OECD 209, read across)

#### 12.2 Persistence and degradability

Further details: No data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 08 04 10 = waste adhesives and sealants other than those mentioned in 08 04 09  
Recommendation: Dispose of waste according to applicable legislation.

##### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:  
not applicable





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## Essential Glue

Material number 40915000/40916000

Page: 9 of 10

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Marine pollutant:

no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code:

-

No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

### Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H318 = Causes serious eye damage.

H332 = Harmful if inhaled.

H400 = Very toxic to aquatic life.

H411 = Toxic to aquatic life with long lasting effects.

Reason of change:

Changes in section 1: Material number  
General revision

Date of first version:

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according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 12/9/2017  
Version: 3  
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Date of print: 12/10/2017

## Essential Glue

Material number 40915000/40916000

Page: 10 of 10

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### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.