



# SAFETY DATA SHEET

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

Revision date: 6/12/2021  
Version: 8.0  
Language: en-GB,IE  
Date of print: 20/1/2022

## Essential Glue

Material number 40915000

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

#### 1.1 Product identifier

Trade name: Essential Glue

UFI: NHT0-G0TG-V00C-9YPS

#### 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: DE-58675 Hemer  
WWW: www.grohe.com  
E-mail: info@grohe.com  
Telephone: +49 (0)2372 93-0  
Telefax: +49 (0)2372 93-1322  
Department 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

##### Special labelling

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available



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### 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
REACH 01-2119489379-17-xxxx EC No. 236-675-5 CAS 13463-67-7	Titanium dioxide	3.5 - 5.5 %	Carc. 2; H351.
REACH 01-2119537297-32-xxxx 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 (M-factor = 1). Aquatic Chronic 2; H411.

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

Customs tariff number: 32141010

Additional information: Contains: Calcium carbonate, 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 spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet



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

May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: 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. Avoid breathing dust/fume/gas/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. Do not breathe Dusts, Aerosol and vapours.

### 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 breathing dust/fume/gas/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:

Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

No information available.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
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 Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:

Systemic effects:

DNEL Long-term, workers, oral: 1.27 mg/kg bw/d

DNEL Long-term, workers, dermal: 1.8 mg/kg bw/d

DNEL Long-term, consumers, inhalative: 0.31 mg/m<sup>3</sup>

DNEL Long-term, consumers, dermal: 0.9 mg/kg bw/d

DNEL Long-term, consumers, oral: 0.18 mg/kg bw/d

PNEC:

Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:

PNEC water (freshwater): 0.004 mg/L

PNEC water (marine water): 0.38 µg/L

PNEC water (intermittent release): 0.007 mg/L

PNEC sewage treatment plant: 1 mg/L

PNEC freshwater sediment: 5.9 mg/kg

PNEC marine sediment: 0.59 mg/kg

PNEC soil: 1.18 mg/kg

#### 8.2 Exposure controls

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



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### Personal protection equipment

#### Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type ABEK-P2 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:  
Avoid breathing dust/fume/gas/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.

#### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## 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: 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



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Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
Viscosity, dynamic: 255000 mPa\*s  
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



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### 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.  
Serious 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 Titanium dioxide:  
LD50 Rat, oral: > 5,000 mg/kg (OECD 425 Up-and-Down)  
LD50 Rabbit, dermal: > 10,000 mg/kg  
LC50 Rat, inhalative (dust): > 6,82 mg/L/4h  
Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:  
LD50 Rat, oral: > 3,700 mg/kg (OECD 423)  
LD50 Rabbit, dermal: > 3,170 mg/kg OECD 402

### SECTION 12: Ecological information

#### 12.1 Toxicity

Further details: No data available

#### 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



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### 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.

#### Package

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

### 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





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### 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

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has been carried out.

### SECTION 16: Other information

#### Further information

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

H318 = Causes serious eye damage.

H351 = Suspected of causing cancer.

H400 = Very toxic to aquatic life.

H411 = Toxic to aquatic life with long lasting effects.

EUH212 = Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.



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### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
OEL: Occupational Exposure Limit Value  
AS/NZS: Australian Standards/New Zealand Standards  
ATEmix: Acute Toxicity Estimate of mixture  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EN: European Standard  
EU: European Union  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TLV: Threshold Limit Value  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

Reason of change: Changes in section 2: Labelling  
Changes in section 3: Composition/information on ingredients  
General revision

Date of first version: 2/5/2017

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.