



SAFETY DATA SHEET

Essential Glue

Material number 4091xxxxx

Revision date: 15.12.2022
Version: 8.0
Replaces version: 7.1
Language: en-UN
Date of print: 2.1.2023
Page: 1 of 7

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: Essential Glue

This safety data sheet pertains to the following products:

Essential: 40915000

QuickGlue: 42245000, 42246000, 42247000, 41128000, 41127000

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

General use: Adhesive

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

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Department responsible for information:

Telephone: +49 (0)2372 93-2037

sustainability@grohe.com

Additional information:

Corporate headquarters:

Grohe AG

Feldmühleplatz 15

40545 Düsseldorf

Telephone: +49 (0)211 9130 3000

Emergency telephone number

GIZ-Nord, Göttingen, Germany,

Telephone: +49 551-19240

2. Hazards identification

Classification of the substance or mixture

GHS classification

Aquatic Acute 3 Harmful to aquatic life.

Label elements

Hazard statements: Harmful to aquatic life.

Precautionary statements: Avoid release to the environment.

Dispose of contents/container to hazardous or special waste collection point.

Other hazards

Special danger of slipping by leaking/spilling product.

3. Composition/information on ingredients

Mixtures

Chemical characterisation: Mixture of the substance mentioned below with non-hazardous additions:



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Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 52829-07-9	Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate	< 1 %	Acute Tox. 5 (oral). Eye Dam. 1. Repr. 2. Aquatic Acute 1 (M-factor = 1). Aquatic Chronic 2.

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

4. 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.

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

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

Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: nitrogen oxides (NOx), carbon monoxide and carbon dioxide

Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

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

6. Accidental release measures

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.

Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
In case of release, notify competent authorities.

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.



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7. Handling and storage

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.

Storage

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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
13463-67-7	Titanium dioxide	USA: ACGIH: TWA	0,2 mg/m ³ (nanoscale particles; respirable fraction)
		USA: ACGIH: TWA	2,5 mg/m ³ (finescale particles; respirable fraction)

Exposure controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

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.
During splash contact: Glove material: polychloroprene - Layer thickness: \geq 1 mm
Breakthrough time: > 60 min
In case of prolonged or frequently repeated skin contact: polychloroprene or natural rubber - Layer thickness: \geq 1 mm
Breakthrough time: > 480 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles

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.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".



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9. Physical and chemical properties

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, reacts with water
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 ³
Solubility:	No data available
Partition coefficient: n-octanol/water:	at 25 °C: Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate 0,35 log P(o/w) (OECD 209) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available

Additional information

Viscosity, dynamic: 255000 mPa*s

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Reacts with water
Conditions to avoid:	Protect from frost. Protect from heat and direct sunlight.
Incompatible materials:	No data available
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available



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11. Toxicological information

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): > 10 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 Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate: LD50 Rat, oral: 3.700 mg/kg LD50 Rabbit, dermal: 3.170 mg/kg

12. Ecological information

Toxicity

Aquatic toxicity:	Harmful to aquatic life. Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate: Fish toxicity: LC50 Lepomis macrochirus (bluegill) 4,4 mg/L/96h (OECD 203) Daphnia toxicity: EC50 Daphnia magna (Big water flea): 8,58 mg/L/48h (OECD 202) Algae toxicity: EC50 Pseudokirchneriella subcapitata (green algae): 0,705 mg/L/72h (OECD 201) Algae toxicity: EC10 Pseudokirchneriella subcapitata (green algae): 0,188 mg/L/72h (OECD 201) Bacterial toxicity: EC50: > 100 mg/L/3h (OECD 209)
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Persistence and degradability

Further details:	Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate: Biodegradation: 24 % (OECD 301 B), Product is not readily biodegradable.
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Mobility in soil

No data available

Additional ecological information

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

Waste treatment methods

Product

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.

14. Transport information

UN number

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

Land transport (ADR/RID)

Product designation: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

Further regulations, limitations and legal requirements

No data available



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16. Other information

Abbreviations and acronyms: Acute Tox.: Acute toxicity
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
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Exceeded quantities
Eye Dam.: Eye damage
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
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%
log P(o/w): Partition coefficient: octanol/water
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
OEL: Occupational Exposure Limit Value
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Repr.: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: Address

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.