

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 25.07.2024 Version number 4 (replaces version 3) Revision: 25.07.2024

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

- · 1.1 Product identifier
- · Trade name: GRF PM SEAL TG CQ 280ML*12 L001
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Adhesive
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Bison International

Dr.A.F.Philipsstraat 9

NL-4462 EW Goes

PO Box 160

NL-4460 AD Goes

tel. +31 88 3235700

fax. +31 88 3235800

e mail: sds@boltonadhesives.com

- · Further information obtainable from: PSRA
- · 1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

EUH208 Contains trimethoxyvinylsilane. May produce an allergic reaction.

- · 2.3 Other hazards During curing methanol (CAS 67-56-1) is produced.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Adhesive

(Contd. on page 2)

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www.griffon.eu 1/9



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 25.07.2024 Version number 4 (replaces version 3) Revision: 25.07.2024

Trade name: GRF PM SEAL TG CQ 280ML*12 L001

	(C	contd. of page 1)
· Dangerous components:		
CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52	trimethoxyvinylsilane Trimethoxyvinylsilane Trimethoxyvinylsilane Trimethoxyvinylsilane Trimethoxyvinylsilane	1-2.5%
CAS: 13822-56-5 EINECS: 237-511-5 Reg.nr.: 01-2119510159-45 05-2114308611-61	3-(trimethoxysilyl)propylamine ♦ Eye Dam. 1, H318; ♦ Skin Irrit. 2, H315	1-2.5%
CAS: 52829-07-9 EINECS: 258-207-9 Reg.nr.: 01-2119537297-32	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate Repr. 2, H361f; Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	≥0.25-<1%
CAS: 2768-02-7 EINECS: 220-449-8 Index number: 014-049-00-0	trimethoxyvinylsilane Trimethoxyvinylsilane Trimethoxyvinylsilane Trimethoxyvinylsilane Trimethoxyvinylsilane Sens. 1i, 1332; Skin Sens. 1B, H317	≥0.1-<1%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: No special measures required.
- · After inhalation:

Supply fresh air; consult doctor in case of complaints.

No special measures required.

Reg.nr.: 01-2119513215-52

- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · 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

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

(Contd. on page 3)

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www.griffon.eu 2/9



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Version number 4 (replaces version 3) Revision: 25.07.2024 Printing date 25.07.2024

Trade name: GRF PM SEAL TG CQ 280ML*12 L001

(Contd. of page 2)

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities

· DNELs

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Oral	Consumer, oral, longterm exposition	0.3 mg/kg bw/day (rat)
Dermal	Worker, dermal, longterm exposition	3.9 mg/kg bw/day (rat)
	Consumer, dermal, longterm exposition	7.8 mg/kg bw/day (rat)
Inhalative	Worker, inhalative, longterm exposition	27.6 mg/m³ (rat)
	Consumer, inhalative, longterm exposition	6.7 mg/m³ (rat)
		18.9 mg/m³ (rabbit)
2768-02-7	trimethoxyvinylsilane	
Oral	Consumer, oral, longterm exposition	0.3 mg/kg bw/day (rat)
Dermal	Worker, dermal, longterm exposition	3.9 mg/kg bw/day (rat)
	Consumer, dermal, longterm exposition	7.8 mg/kg bw/day (rat)
Inhalative	Worker, inhalative, longterm exposition	27.6 mg/m³ (rat)
	Consumer, inhalative, longterm exposition	6.7 mg/m³ (rat)
		18.9 mg/m³ (rabbit)

2768-02-7 trimethoxyvinylsilane

Fresh water 0.4 mg/l (rat)

Fresh water sediment 1.5 mg/kg dry weight (rat)

(Contd. on page 4)

www.griffon.eu



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 25.07.2024 Version number 4 (replaces version 3) Revision: 25.07.2024

Trade name: GRF PM SEAL TG CQ 280ML*12 L001

(Contd.	of	page	3
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	Marine water	0.04 mg/l (rat)
	Marine sediment	0.15 mg/kg dry weight (rat)
	Soil	0.06 mg/kg (rat)
	Sewage treatment plant	6.6 mg/l (rat)
	Sporadic release	2.4 mg/l (rat)
	2768-02-7 trimethoxyvinylsilane	
	Fresh water	0.4 mg/l (rat)
	Fresh water sediment	1.5 mg/kg dry weight (rat)
	Marine water	0.04 mg/l (rat)
	Marine sediment	0.15 mg/kg dry weight (rat)
	Soil	0.06 mg/kg (rat)
	Sewage treatment plant	6.6 mg/l (rat)
	Sporadic release	2.4 mg/l (rat)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

- · Respiratory protection: Not necessary if room is well-ventilated.
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Recommended thickness of the material: > 0,12 mm

Nitrile rubber, NBR

Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

Eye/face protection Goggles recommended during refilling

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Physical state Fluid · Colour: Opaque · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and

boiling range Undetermined.

(Contd. on page 5)

www.griffon.eu



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 25.07.2024 Version number 4 (replaces version 3) Revision: 25.07.2024

Trade name: GRF PM SEAL TG CQ 280ML*12 L001

· Flammable liquids

· Flammable solids

· Pyrophoric liquids

· Pyrophoric solids

· Self-reactive substances and mixtures

· Self-heating substances and mixtures

Substances and mixtures, which emit flammable gases in contact with water

(Contd. of page 4) · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: >100 °C Decomposition temperature: Not determined. Hq· Not determined. · Viscosity: Not determined. · Kinematic viscosity 75000 mPas · Dynamic at 20 °C: Solubility · water: Not miscible or difficult to mix. Partition coefficient n-octanol/water (log Not determined. value) Not determined. · Vapour pressure: Density and/or relative density Density at 20 °C: 1.042 g/cm³ · Relative density Not determined. Vapour density Not determined. All relevant physical data were determined for the · 9.2 Other information mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture. · Appearance: · Form: Pasty · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. **Explosive properties:** Product does not present an explosion hazard. · Solvent content: 0.0 % · Organic solvents: · Solids content: 63.8 % · Change in condition Not determined. · Evaporation rate · Information with regard to physical hazard classes · Explosives Void Flammable gases Void · Aerosols Void Oxidising gases Void · Gases under pressure Void

(Contd. on page 6)

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www.griffon.eu 5/9

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 25.07.2024 Version number 4 (replaces version 3) Revision: 25.07.2024

Trade name: GRF PM SEAL TG CQ 280ML*12 L001

(Contd. of page 5)

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Possible in traces.
- · Additional information: During curing methanol (CAS 67-56-1) is produced.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification: 2768-02-7 trimethoxyvinylsilane LD50 6899 mg/kg (rat) Oral Dermal LD50 3158 mg/kg (rat) Inhalative LC50/4 h 16.8 mg/l (rat) 2768-02-7 trimethoxyvinylsilane Oral LD50 6899 mg/kg (rat) Dermal LD50 3158 mg/kg (rat) Inhalative LC50/4 h 16.8 mg/l (rat)

Skin corrosion/irritation

Component CAS No. Method Species Conclusion Vinyltrimethoxysilane 2768-02-7 OECD No. 429 mouse, dermal no sensitisation

Serious eye damage/irritation

Component CAS No. Method Species Conclusion
3-Aminopropyl 13822-56-5 BCOP OECD 437 cattle, eye no ocular irritation trimethoxysilane

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity

Not applicable.

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.

(Contd. on page 7)

page.

www.griffon.eu 6/9



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Trade name: GRF PM SEAL TG CQ 280ML*12 L001

(Contd. of page 6)

- · **Aspiration hazard** Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- Sensitisation Not applicable.
- Repeated dose toxicity Not applicable.
- · 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/ADN, IMDG, IATA not regulated

· 14.2 UN proper shipping name

· ADR/ADN, IMDG, IATA not regulated

(Contd. on page 8)

ΪΕ

www.griffon.eu 7/9



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 25.07.2024 Version number 4 (replaces version 3) Revision: 25.07.2024

Trade name: GRF PM SEAL TG CQ 280ML*12 L001

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· 14.3 Transport hazard class(es)	
· ADR/ADN, ADN, IMDG, IATA · Class	not regulated
· 14.4 Packing group · ADR/ADN, IMDG, IATA	not regulated
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk accordi IMO instruments	ing to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

(Contd. on page 9)

ΙE

www.griffon.eu 8/9



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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Trade name: GRF PM SEAL TG CQ 280ML*12 L001

(Contd. of page 8)

H411 Toxic to aquatic life with long lasting effects.

Department issuing SDS: PSRA

· Contact: PSRA

 Date of previous version: 25.07.2024 · Version number of previous version: 3

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B

Repr. 2: Reproductive toxicity - Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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