# Safety data sheet

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

Printing date 14.07.2026 Version number 11 (replaces version 10) Revision: 14.07.2026

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

· **1.1 Product identifier**

· **Trade name:** GRF PM FIX&SEAL EXP AN CQ 425G*12 L221
· **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:**
Bison and Griffon products: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)
UHU products: + 49 (0) 30/19240 (Notruf). Operating hours mo-fr 08:00h-17:00h (CET)

For detailed information contact the national Poison Centre @
https://poisoncentres.echa.europa.eu/appointed-bodies

## 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**
· **Classification needs to be in accordance with the NZ Hazardous Substances (Hazard Classification) Notice 2020**
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

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## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Adhesive

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· **Dangerous components:**

| | | |
|---|---|---|
| CAS: 2768-02-7<br>EINECS: 220-449-8<br>Index number: 014-049-00-0<br>Reg.nr.: 01-2119513215-52-XXXX | trimethoxyvinylsilane<br>Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Sens. 1B, H317 | 2.5-10% |
| CAS: 13822-56-5<br>EINECS: 237-511-5<br>Reg.nr.: 01-2119510159-45-XXXX | 3-(trimethoxysilyl)propylamine<br>Eye Dam. 1, H318; Skin Irrit. 2, H315 | 1-2.5% |
| CAS: 52829-07-9<br>EINECS: 258-207-9<br>Reg.nr.: 01-2119537297-32-XXXX | bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate<br>Repr. 2, H361f; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411 | <0.25% |

· **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.
· **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:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **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.

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· **6.3 Methods and material for containment and cleaning up:**
Send for recovery or disposal in suitable receptacles.
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**
· **Storage:**
· **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.

| · **DNELs** | | |
|---|---|---|
| **2768-02-7 trimethoxyvinylsilane** | | |
| Oral | Consumer, oral, longterm exposition | 0.3 mg/kg bw/day |
| 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) |
| **13822-56-5 3-(trimethoxysilyl)propylamine** | | |
| Dermal | Worker, dermal, longterm exposition | 1 mg/kg bw/day |
| | Consumer, dermal, longterm exposition | 0.5 mg/kg bw/day |
| Inhalative | Worker, inhalative, longterm exposition | 7.1 mg/m³ |
| | Consumer, inhalative, longterm exposition | 1.7 mg/m³ |
| **52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate** | | |
| Oral | Consumer, oral, longterm exposition | 0.18 mg/kg bw/day |
| Dermal | Worker, dermal, longterm exposition | 1.8 mg/kg bw/day |
| | Consumer, dermal, longterm exposition | 0.9 mg/kg bw/day |

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| | | |
|---|---|---|
| Inhalative | Worker, inhalative, longterm exposition | 1.27 mg/m³ |
| | Consumer, inhalative, longterm exposition | 0.31 mg/m³ |

· **PNECs**

| **2768-02-7 trimethoxyvinylsilane** | |
|---|---|
| Fresh water | 0.4 mg/l |
| Fresh water sediment | 1.5 mg/kg dry weight |
| Marine water | 0.04 mg/l |
| Marine sediment | 0.15 mg/kg dry weight |
| Soil | 0.06 mg/kg |
| Sewage treatment plant | 6.6 mg/l |
| Sporadic release | 2.4 mg/l |
| **13822-56-5 3-(trimethoxysilyl)propylamine** | |
| Fresh water | 0.5 mg/l |
| Fresh water sediment | 1.8 mg/kg dry weight |
| Marine water | 0.05 mg/l |
| Marine sediment | 0.18 mg/kg dry weight |
| Soil | 0.069 mg/kg |
| Sewage treatment plant | 0.81 mg/l |
| **52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate** | |
| Fresh water | 0.018 mg/l |
| Fresh water sediment | 29 mg/kg dry weight |
| Marine water | 0.0018 mg/l |
| Marine sediment | 2.9 mg/kg dry weight |
| Soil | 5.9 mg/kg |
| Sewage treatment plant | 1 mg/l |
| Sporadic release | 0.007 mg/l |

· **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

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· **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** | Liquid |
| · **Colour:** | Grey |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined |
| · **Melting point/freezing point:** | Undetermined |
| · **Boiling point or initial boiling point and boiling range** | Undetermined |
| · **Flammability** | Not applicable |
| · **Lower and upper explosion limit** | |
| · **Lower:** | Not determined |
| · **Upper:** | Not determined |
| · **Flash point:** | 98 °C |
| · **Decomposition temperature:** | Not determined |
| · **pH** | Not determined |
| · **Viscosity:** | |
| · **Kinematic viscosity** | Not determined |
| · **Dynamic at 20 °C:** | 100000 mPas |
| · **Solubility** | |
| · **water:** | Not miscible or difficult to mix. |
| · **Partition coefficient n-octanol/water (log value)** | Not determined |
| · **Vapour pressure:** | Not determined |
| · **Density and/or relative density** | |
| · **Density:** | Not determined |
| · **Relative density** | Not determined |
| · **Vapour density** | Not determined |
| · **9.2 Other information** | All relevant physical data were determined for the 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:** | |
| · **Organic solvents:** | 0.0 % |

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| | |
|---|---|
| · **Solids content:** | 75.2 % |
| · **Change in condition** | |
| · **Evaporation rate** | Not determined |

| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Void |
| · **Oxidising gases** | Void |
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Void |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## 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.

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## 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**

| | | |
|---|---|---|
| Oral | LD50 | 6899 mg/kg (rat) |
| Dermal | LD50 | 3158 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 16.8 mg/l (rat) |

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| **13822-56-5 3-(trimethoxysilyl)propylamine** | | |
|---|---|---|
| Oral | LD50 | 3030 mg/kg (rat) |
| Dermal | LD50 | 10000 mg/kg (rabbit) |
| **52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate** | | |
| Oral | LD50 | 3700 mg/kg (rat) |
| Dermal | LD50 | >3170 mg/kg (rat) |
| Inhalative | LC50/4 h | 7.7 mg/l (rat) |

· **Primary irritant effect:**
· **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 trimethoxysilane | 13822-56-5 | BCOP OECD 437 | cattle, eye | no ocular irritation |

· **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.
· **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.

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· **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<br>- |
| · **14.2 UN proper shipping name** | |
| · **ADR/ADN, IMDG, IATA** | not regulated |
| · **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 according to IMO instruments** | Not applicable |
| · **Transport/Additional information:** | Not dangerous according to the above specifications. |
| · **UN "Model Regulation":** | not regulated |

EU

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## 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**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

· **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.
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:** 10
· **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

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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
· *** Data compared to the previous version altered.**

EU