

Printing date 21.03.2025 Version number 39 (replaces version 38) Re

Revision: 21.03.2025

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

1.1 Product identifier

- · Trade name: GRF PM FIX&SEAL EXP WH CQ 425G*12 L197
- **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

\cdot 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.
- EUH210 Safety data sheet available on request.
- 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

· Dangerous components:

2		
CAS: 2768-02-7	trimethoxyvinylsilane	2.5-10%
EINECS: 220-449-8	🚸 Flam. Lig. 3, H226; 🚸 Acute Tox. 4, H332; Skin	
Index number: 014-049-00-0	Šens. 1B, H317	
Reg.nr.: 01-2119513215-52-		
XXXX		

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CAS: 13822-56-5 EINECS: 237-511-5 Reg.nr.: 01-2119510159-45- XXXX	(Cont	td. of page 1) 1-2.5%
CAS: 52829-07-9 EINECS: 258-207-9 Reg.nr.: 01-2119537297-32- XXXX	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 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: 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.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). **6.4 Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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:

DNIEL

- · 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: 12
- 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 of	_	0.3 mg/kg bw/day	
	Consumer, oral, longterm exposition Worker, dermal, longterm exposition			
Dermal		• •	3.9 mg/kg bw/day (rat)	
		ermal, longterm exposition	7.8 mg/kg bw/day (rat)	
Inhalative Worker, inhalative, longterm exposition		ative, longterm exposition	27.6 mg/m³ (rat)	
	Consumer, in	halative, longterm exposition	6.7 mg/m³ (rat)	
			18.9 mg/m³ (rabbit)	
13822-56-	5 3-(trimetho	xysilyl)propylamine	•	
Dermal	Worker, derm	nal, longterm exposition	1 mg/kg bw/day	
	Consumer, d	ermal, longterm exposition	0.5 mg/kg bw/day	
Inhalative	Worker, inhal	ative, longterm exposition	7.1 mg/m³	
	Consumer, in	halative, longterm exposition	1.7 mg/m³	
52829-07-	9 bis(2,2,6,6-	tetramethyl-4-piperidyl) seb	acate	
Oral	Consumer, o	ral, longterm exposition	0.18 mg/kg bw/day	
Dermal	Worker, derm	nal, longterm exposition	1.8 mg/kg bw/day	
	Consumer, d	ermal, longterm exposition	0.9 mg/kg bw/day	
Inhalative	Worker, inhal	ative, longterm exposition	1.27 mg/m ³	
	Consumer, in	halative, longterm exposition	0.31 mg/m ³	
PNECs			•	
2768-02-7	trimethoxyv	inylsilane		
Fresh wate	er	0.4 mg/l		
Fresh wate	er sediment	1.5 mg/kg dry weight		



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Marine water	0.04 mg/l (Contd. of page	
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-(trimethe	-	
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 plan		
	-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 plan		
Sporadic release	0.007 mg/l	
•	n: The lists valid during the making were used as basis.	
Individual protection General protective an	ing controls No further data; see section 7. measures, such as personal protective equipment d hygienic measures:	
	y measures are to be adhered to when handling chemicals.	
	eaks and at the end of work. n: Not necessary if room is well-ventilated.	
· Hand protection	in Not no cooleary in room to work vormated.	
	as to be impermeable and resistant to the product/ the substance/ t	
preparation.	material an appaidantian of the non-stration times, water of diffusion and t	
degradation	material on consideration of the penetration times, rates of diffusion and t	
0		
· Material of gloves		
Material of gloves Recommended thickne	ss of the material: > 0,12 mm	
• Material of gloves Recommended thickne Nitrile rubber, NBR		
 Material of gloves Recommended thickne Nitrile rubber, NBR Penetration time of gl For the mixture of chemical structure 		

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0.4 Information on basis abusised and ab	
9.1 Information on basic physical and che General Information	emical properties
Physical state	Fluid
Colour:	White
Odour:	Recognisable
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and	enactorninoa.
boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
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 ware datarmined for t
9.2 Other mormation	All relevant physical data were determined for the mixture. All non-determined data are n
	measurable or not relevant for the
	characterization of the mixture.
Appearance:	
Form:	Pasty
Important information on protection of he	
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 %
VOC (EC)	0.01 %
Solids content:	75.8 %
Change in condition	10.0 /0
Evaporation rate	Not determined.
•	
Information with regard to physical ha	zard
classes	
Explosives	Void

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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.

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	· LD/LC50 values relevant for classification:			
2768-02-7	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)		
13822-56	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)		
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				(Contd. of pag
Inhalative LC50/4 h 7	.,			
Primary irritant effec				
Skin corrosion/irritat				
Component	CAS No.	Method	Species	Conclusion
Vinyltrimethoxysilane		OECD No. 429	mouse, dermal	no sensitisation
Serious eye damage			a .	
• • · · · · · · · · · · · · · · · · · ·	CAS No.	Method	Species	Conclusion
1 1 2	13822-56-5	BCOP OECD 437	cattle, eye	no ocular irritation
trimethoxysilane				
Respiratory or skin s		ased on available da	ata, the classifica	tion criteria are not me
Germ cell mutagenic	city			
Not applicable.				
Based on available da	the classific			
	,	ation criteria are not		
Carcinogenicity Base	ed on available	data, the classificati	on criteria are no	
Carcinogenicity Base Reproductive toxicit	ed on available y Based on ava	data, the classificati ilable data, the class	on criteria are no sification criteria	are not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu	ed on available y Based on ava re Based on av	data, the classificati ilable data, the class ailable data, the class	on criteria are no sification criteria a ssification criteria	are not met. are not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu STOT-repeated expo	ed on available y Based on ava re Based on av osure Based on	data, the classificati ilable data, the class ailable data, the class available data, the data, the d	on criteria are no sification criteria ssification criteria classification crite	are not met. are not met. eria are not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu STOT-repeated expo Aspiration hazard Ba	ed on available y Based on ava re Based on av osure Based on ased on availab	data, the classificati ilable data, the class ailable data, the class available data, the class available data, the classifica	on criteria are no sification criteria ssification criteria classification crite	are not met. are not met. eria are not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu STOT-repeated expo Aspiration hazard Ba Additional toxicolog	ed on available y Based on ava re Based on av osure Based on ased on availab ical informatio	data, the classificati ilable data, the class ailable data, the class available data, the class le data, the classifica n:	on criteria are no sification criteria ssification criteria classification crite ation criteria are	are not met. are not met. eria are not met. not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu STOT-repeated expo Aspiration hazard Ba Additional toxicologi Acute effects (acute	ed on available y Based on ava re Based on av osure Based on ased on availab ical informatio toxicity, irritat	data, the classificati ilable data, the class ailable data, the class available data, the class le data, the classifica n:	on criteria are no sification criteria ssification criteria classification crite ation criteria are	are not met. are not met. eria are not met. not met.
Carcinogenicity Base Reproductive toxicit STOT-single exposu STOT-repeated expo Aspiration hazard Ba Additional toxicolog Acute effects (acute Sensitisation Not app	ed on available y Based on ava re Based on av osure Based on ased on availab ical informatio toxicity, irritat plicable.	data, the classificati ilable data, the class ailable data, the class available data, the class le data, the classifica n: ion and corrosivity	on criteria are no sification criteria ssification criteria classification crite ation criteria are	are not met. are not met. eria are not met. not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu STOT-repeated expo Aspiration hazard Ba Additional toxicolog Acute effects (acute Sensitisation Not app Repeated dose toxic	ed on available y Based on ava re Based on av sure Based on ased on availab ical informatio toxicity, irritat plicable. :ity Not applicab	data, the classificati ilable data, the class ailable data, the class available data, the class le data, the classifica n: ion and corrosivity	on criteria are no sification criteria ssification criteria classification crite ation criteria are	are not met. are not met. eria are not met. not met.
Carcinogenicity Base Reproductive toxicit STOT-single exposu STOT-repeated expo Aspiration hazard Ba Additional toxicolog Acute effects (acute	ed on available y Based on ava re Based on av sure Based on ased on availab ical informatio toxicity, irritat plicable. :ity Not applicab	data, the classificati ilable data, the class ailable data, the class available data, the class le data, the classifica n: ion and corrosivity	on criteria are no sification criteria ssification criteria classification crite ation criteria are	are not met. are not met. eria are not met. not met.
Carcinogenicity Base Reproductive toxicity STOT-single exposu STOT-repeated expo Aspiration hazard Ba Additional toxicologi Acute effects (acute Sensitisation Not app Repeated dose toxic	ed on available y Based on ava re Based on av osure Based on ased on availab ical informatio toxicity, irritat plicable. sity Not applicat other hazards	data, the classificati ilable data, the class ailable data, the class available data, the class le data, the classifica n: ion and corrosivity	on criteria are no sification criteria ssification criteria classification crite ation criteria are	are not met. are not met. eria are not met. not met.

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.

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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:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14.1 UN number or ID number	
· ADR/ADN, IMDG, IATA	not regulated
	-
ADN	not regulated
[.] 14.2 UN proper shipping name [.] ADR/ADN, 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:	
· Marine pollutant:	No
[•] 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk accordi	ng to
IMO instruments	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.

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 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: 30.07.2021
- · Version number of previous version: 38
- · 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)

- VOC: Volatile Organic Compounds (USA, EU)
- 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

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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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