Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

1 Identification

· **Product identifier**

· **Trade name:** GRF MR EXTREME BD 20G*6 L714
· **Application of the substance / the mixture** Adhesive

· **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

· **Information department:** PSRA
· **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

2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *0
Fire = 1
Reactivity = 0

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

US

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 1)

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Adhesive

· **Dangerous components:**		
13822-56-5	3-(trimethoxysilyl)propylamine	≥3-<10%
78-08-0	Triethoxy(vinyl)silane	2.5-10%

4 First-aid measures

· **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.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required
· **Environmental precautions:** No special measures required.
· **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).
· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 2)

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
13822-56-5	3-(trimethoxysilyl)propylamine	9.0 mg/m3
78-08-0	Triethoxy(vinyl)silane	2.6 ppm
2768-02-7	trimethoxyvinylsilane	10 ppm
67-56-1	Methanol	530 ppm

· **PAC-2:**		
13822-56-5	3-(trimethoxysilyl)propylamine	99 mg/m3
78-08-0	Triethoxy(vinyl)silane	29 ppm
2768-02-7	trimethoxyvinylsilane	20 ppm
67-56-1	Methanol	2100 ppm

· **PAC-3:**		
13822-56-5	3-(trimethoxysilyl)propylamine	600 mg/m3
78-08-0	Triethoxy(vinyl)silane	170 ppm
2768-02-7	trimethoxyvinylsilane	120 ppm
67-56-1	Methanol	7200 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

· **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
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components 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.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
· **Breathing equipment:** Not necessary if room is well-ventilated.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 3)

· **Protection of hands:**
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 protection:** Goggles recommended during refilling.

*

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Clear
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined
· **pH-value:**	Not determined
· **Change in condition**	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	194 °C (381.2 °F)
· **Flash point:**	102 °C (215.6 °F)
· **Flammability:**	Not applicable
· **Auto igniting:**	400 °C (752 °F)
· **Decomposition temperature:**	Not determined
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined
Upper:	Not determined
· **Vapor pressure:**	Not determined
· **Density at 20 °C (68 °F):**	~1.11 g/cm³ (~9.263 lbs/gal)
· **Relative density**	Not determined
· **Vapor density**	Not determined
· **Evaporation rate**	Not determined
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 4)

· **Partition coefficient (n-octanol/water):**	Not determined
· **Viscosity:**	
Dynamic at 20 °C (68 °F):	10000 mPas
Kinematic:	Not determined
· **Solvent content:**	
Organic solvents:	2.8 %
VOC content:	0.02 % 0.2 g/l / 0.00 lb/gal
Solids content:	47.5 %
· **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.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** Possible in traces.
· **Additional information:** During curing methanol (CAS 67-56-1) is produced.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
13822-56-5 3-(trimethoxysilyl)propylamine		
Oral	LD50	3030 mg/kg (rat)
Dermal	LD50	10000 mg/kg (rabbit)
78-08-0 Triethoxy(vinyl)silane		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:**

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

· **Sensitization:** No sensitizing effects known.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 5)

· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **Germ cell mutagenicity** Not applicable

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Smaller quantities can be disposed of with household waste.
Disposal must be made according to official regulations.

· **Uncleaned packagings:**
· **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

US

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 6)

14 Transport information

· **UN-Number**	
· **DOT, ADN**	not regulated
· **ADR/ADN, IMDG, IATA**	not regulated
	-
· **UN proper shipping name**	
· **DOT, ADR/ADN, ADN, IMDG, IATA**	not regulated
· **Transport hazard class(es)**	
· **DOT, ADR/ADN, ADN, IMDG, IATA**	
· **Class**	not regulated
· **Packing group**	
· **DOT, ADR/ADN, IMDG, IATA**	not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable
· **Transport/Additional information:**	Not dangerous according to the above specifications.
· **UN "Model Regulation":**	not regulated

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1	Methanol

· **TSCA (Toxic Substances Control Act):**

13822-56-5	3-(trimethoxysilyl)propylamine	ACTIVE
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	ACTIVE
78-08-0	Triethoxy(vinyl)silane	ACTIVE
2768-02-7	trimethoxyvinylsilane	ACTIVE
129757-67-1	Decanedioic acid, bis(2,2,6,6-tetramethyl-1-(octyloxy)-4-piperidinyl)ester, reaction products with 1,1-dimethylethylhydroperoxide and octane	ACTIVE
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	ACTIVE
67-56-1	Methanol	ACTIVE

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 7)

· **Hazardous Air Pollutants**

67-56-1	Methanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

67-56-1	Methanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· **Department issuing SDS:** PSRA
· **Contact:** PSRA
· **Date of preparation / last revision** 10/01/2026 / 47
· **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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2026 Reviewed on 10/01/2026

Trade name: GRF MR EXTREME BD 20G*6 L714

(Contd. of page 8)

NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

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

US