Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

1 Identification

· **Product identifier**

· **Trade name:** GRF PANEL MAX DP WH CQ 425G*12 L201
· **Other means of identification**
· **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

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2 Hazard identification

· **Classification of the substance or mixture**

Carcinogenicity – Category 2	H351 Suspected of causing cancer.
Reproductive Toxicity - Category 2	H361 Suspected of damaging fertility or the unborn child.

· **Label elements**
· **Hazard pictograms**



GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Titanium dioxide
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
· **Hazard statements**
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.

(Contd. on page 2)
CA

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 1)

· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 1
Reactivity = 0

· **Other hazards** During curing methanol (CAS 67-56-1) is produced.

3 Composition/Information on ingredients

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

· **Dangerous components:**

2768-02-7	trimethoxyvinylsilane	1-5% w/w *
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	≥0.1-<1% w/w *
13463-67-7	Titanium dioxide	0.1-1% w/w *
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	≥0.1-<1% w/w *

* Actual concentration ranges are withheld as a trade secret.

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.
· **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.

(Contd. on page 3)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 2)

· **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:** Do not allow to enter sewers/ surface or ground water.
· **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).
Dispose contaminated material as waste according to section 13.
· **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.

7 Handling and storage

· **Precautions for safe handling** Open and handle receptacle with care.
· **Information about protection against explosions and fires:**
Keep respiratory protective device available.

· **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:** Keep receptacle tightly sealed.
· **Storage class:** 10
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
2768-02-7 trimethoxyvinylsilane	
EV	STEL: 60 mg/m³, 10 ppm

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

· **Exposure controls**
· **Additional information about design of technical systems:** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.

(Contd. on page 4)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 3)

Wash hands before breaks and at the end of work.
Store protective clothing separately.

· **Breathing equipment:** Not necessary if room is well-ventilated.
· **Protection of hands:**



Protective gloves

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.

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Liquid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined
· **Melting point/Melting range:**	Undetermined
· **Boiling point/Boiling range:**	Undetermined
· **Flammability:**	Not applicable
· **Explosion limits:**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	237 °C
· **Decomposition temperature:**	Not determined
· **pH-value:**	Not determined
· **Viscosity:**	
· **Kinematic:**	Not determined
· **Dynamic:**	Not determined
· **Solubility in / Miscibility with**	
· **Water:**	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined
· **Vapor pressure:**	Not determined
· **Vapor pressure:**	
· **Density at 20 °C:**	1.497 g/cm³
· **Relative density**	Not determined

(Contd. on page 5)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 4)

· **Vapor density**	Not determined
· **Particle characteristics**	Not applicable
· **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:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **Organic solvents:**	0.0 %
· **Solids content:**	71.1 %
· **Change in condition**	
· **Evaporation rate**	Not determined

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:**		
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)
1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine		
Oral	LD50	2295 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
13463-67-7 Titanium dioxide		
Oral	LD50	>5000 mg/kg (rat)

(Contd. on page 6)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 5)

Dermal	LD50	>2000 mg/kg (rat)
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:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Germ cell mutagenicity** Not applicable
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
13463-67-7	Titanium dioxide	2B

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

12 Ecological information

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

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

(Contd. on page 7)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 6)

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

14 Transport information

· **UN-Number**	
· **DOT/TDG, ADN**	not regulated
· **ADR, IMDG, IATA**	not regulated
	-
· **UN proper shipping name**	
· **DOT/TDG, ADR, ADN, IMDG, IATA**	not regulated
· **Transport hazard class(es)**	
· **DOT/TDG, ADR, ADN, IMDG, IATA**	
· **Class**	not regulated
· **Packing group**	
· **DOT/TDG, ADR, IMDG, IATA**	not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **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.
· **Special precautions for user**	Not applicable
· **UN "Model Regulation":**	not regulated

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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):**

471-34-1	calcium carbonate	ACTIVE
2768-02-7	trimethoxyvinylsilane	ACTIVE
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	ACTIVE

(Contd. on page 8)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 7)

13463-67-7	Titanium dioxide	ACTIVE
68441-17-8	Oxydised polyethylene wax	ACTIVE
13822-56-5	3-(trimethoxysilyl)propylamine	ACTIVE
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	ACTIVE
67-56-1	Methanol	ACTIVE
77-99-6	propylidynetrimethanol	ACTIVE
1185-55-3	Trimethoxy(methyl)silane	ACTIVE
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	ACTIVE
2530-87-2	3-chloropropyltrimethoxysilane	ACTIVE

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**	
471-34-1	calcium carbonate
75009-88-0	P O L Y [O X Y (M E T H Y L - 1 , 2 - E T H A N E D I Y L)] , . A L P H A . - [3 - (DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL) PROPOXY]-
2768-02-7	trimethoxyvinylsilane
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine
13463-67-7	Titanium dioxide
68441-17-8	Oxydised polyethylene wax
13822-56-5	3-(trimethoxysilyl)propylamine
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
67-56-1	Methanol
77-99-6	propylidynetrimethanol
1185-55-3	Trimethoxy(methyl)silane
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica
2530-87-2	3-chloropropyltrimethoxysilane

· **Canadian Non-Domestic Substances List (NDSL)**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**
None of the ingredients is listed.

· **Per- and polyfluoroalkyl substances (PFAS)**
None of the ingredients is listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 9)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/13/2026 Version number 38 Revision: 07/13/2026

Trade name: GRF PANEL MAX DP WH CQ 425G*12 L201

(Contd. of page 8)

· **Hazard pictograms**



GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Titanium dioxide
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

· **Hazard statements**
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.

· **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 previous version** 07/30/2021
· **Version number of previous version:** 37
· **Date of preparation** 07/13/2026
· **Abbreviations and acronyms:**
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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

CA