Safety Data Sheet
acc. to OSHA HCS

Printing date 07/14/2026 Reviewed on 07/14/2026

1 Identification

· **Product identifier**

· **Trade name:** GRF EPDM MAX CQ 465G*12 L1
· **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**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

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



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
N-(3-(trimethoxysilyl)propyl)ethylenediamine
Dioctyltinbis(acetylacetonate)
· **Hazard statements**
H317 May cause an allergic skin reaction.
· **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves.
P302+P352 If on skin: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.

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· **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

3 Composition/information on ingredients

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

· **Dangerous components:**

57-11-4	stearic acid, pure	<1%
2768-02-7	trimethoxyvinylsilane	≥0.1-<1%
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	≥0.1-<1%
54068-28-9	Dioctyltinbis(acetylacetonate)	≥0.1-<1%
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	≥0.1-<1%

4 First-aid measures

· **Description of first aid measures**
· **General information:** No special measures required.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **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.

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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.

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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.
Ensure adequate ventilation.
· **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.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
471-34-1	calcium carbonate	45 mg/m3
25322-69-4	polypropylene glycol	30 mg/m3
57-11-4	stearic acid, pure	30 mg/m3
2768-02-7	trimethoxyvinylsilane	10 ppm
13822-56-5	3-(trimethoxysilyl)propylamine	9.0 mg/m3
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1.6 mg/m3
14808-60-7	Quartz (SiO2)	0.075 mg/m3
1185-55-3	Trimethoxy(methyl)silane	35 mg/m3
67-56-1	Methanol	530 ppm
2530-87-2	3-chloropropyltrimethoxysilane	20 mg/m3

· **PAC-2:**		
471-34-1	calcium carbonate	210 mg/m3
25322-69-4	polypropylene glycol	330 mg/m3
57-11-4	stearic acid, pure	150 mg/m3
2768-02-7	trimethoxyvinylsilane	20 ppm
13822-56-5	3-(trimethoxysilyl)propylamine	99 mg/m3
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	18 mg/m3
14808-60-7	Quartz (SiO2)	8.3 mg/m3
1185-55-3	Trimethoxy(methyl)silane	390 mg/m3

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67-56-1	Methanol	2100 ppm
2530-87-2	3-chloropropyltrimethoxysilane	220 mg/m3

· **PAC-3:**

471-34-1	calcium carbonate	1300 mg/m3
25322-69-4	polypropylene glycol	2000 mg/m3
57-11-4	stearic acid, pure	910 mg/m3
2768-02-7	trimethoxyvinylsilane	120 ppm
13822-56-5	3-(trimethoxysilyl)propylamine	600 mg/m3
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	110 mg/m3
14808-60-7	Quartz (SiO2)	50 mg/m3
1185-55-3	Trimethoxy(methyl)silane	2300 mg/m3
67-56-1	Methanol	7200 ppm
2530-87-2	3-chloropropyltrimethoxysilane	1300 mg/m3

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

57-11-4 stearic acid, pure	
TLV	Long-term value: 10* 3** mg/m³ *inhalable, **respirable particulate matter, *A4

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

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· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **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.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined
· **pH-value:**	Not determined
· **Change in condition**	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	288 °C (550.4 °F)
· **Flash point:**	229 °C (444.2 °F)
· **Flammability:**	Not applicable
· **Decomposition temperature:**	Not determined
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.

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· **Explosion limits:**	
Lower:	Not determined
Upper:	Not determined
· **Vapor pressure at 20 °C (68 °F):**	>0 hPa
· **Density:**	Not determined
· **Relative density**	Not determined
· **Vapor density**	Not determined
· **Evaporation rate**	Not determined
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined
· **Viscosity:**	
Dynamic:	Not determined
Kinematic:	Not determined
· **Solvent content:**	
Organic solvents:	0.0 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	85.8 %
· **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.

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11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**		
57-11-4 stearic acid, pure		
Dermal	LD50	>5000 mg/kg (rabbit)
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)
54068-28-9 Dioctyltinbis(acetylacetonate)		
Oral	LD50	2500 mg/kg (rat)
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:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
14808-60-7	Quartz (SiO2)	1

· **NTP (National Toxicology Program)**		
14808-60-7	Quartz (SiO2)	K

· **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.

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· **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 product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **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:**
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.

· **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, 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

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· **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):**

471-34-1	calcium carbonate	ACTIVE
25322-69-4	polypropylene glycol	ACTIVE
57-11-4	stearic acid, pure	ACTIVE
2768-02-7	trimethoxyvinylsilane	ACTIVE
13822-56-5	3-(trimethoxysilyl)propylamine	ACTIVE
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	ACTIVE
52829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	ACTIVE
14808-60-7	Quartz (SiO2)	ACTIVE
1185-55-3	Trimethoxy(methyl)silane	ACTIVE
67-56-1	Methanol	ACTIVE
2530-87-2	3-chloropropyltrimethoxysilane	ACTIVE

· **Hazardous Air Pollutants**

67-56-1	Methanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7	Quartz (SiO2)

· **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.

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· **TLV (Threshold Limit Value)**		
14808-60-7	Quartz (SiO2)	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
14808-60-7	Quartz (SiO2)

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



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
N-(3-(trimethoxysilyl)propyl)ethylenediamine
Dioctyltinbis(acetylacetonate)
· **Hazard statements**
H317 May cause an allergic skin reaction.
· **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves.
P302+P352 If on skin: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
· **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** 07/14/2026 / 13
· **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

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NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

US