

Safety data sheet

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

Printing date 20.07.2025

Version number 13 (replaces version 12)

Revision: 20.07.2025

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

- **1.1 Product identifier**
- **Trade name:** GRF EPDM MAX CQ 465G*12 L1
- **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:**
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, N-(3-(trimethoxysilyl)propyl)ethylenediamine, Dioctyltinbis(acetylacetonate). 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

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· **Dangerous components:**

CAS: 2768-02-7 EINECS: 220-449-8 Index number: 014-049-00-0 Reg.nr.: 01-2119513215-52-XXXX	trimethoxyvinylsilane ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332; Skin Sens. 1B, H317	≥0.1-<1%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39-XXXX	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<1%
CAS: 54068-28-9 ELINCS: 483-270-6 Reg.nr.: 01-0000020199-67-XXXX	Dioctyltinbis(acetylacetonate) ⚠ STOT SE 2, H371; ⚠ Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥5 %	≥0.1-<1%
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.

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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**
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/m ³ (rat)
	Consumer, inhalative, longterm exposition	6.7 mg/m ³ (rat)
		18.9 mg/m ³ (rabbit)

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

Oral	Consumer, oral, longterm exposition	8 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	260 mg/m ³
	Worker, inhalative, longterm exposition	260 mg/m ³
	Consumer DNEL, acute inhalation	50 mg/m ³
	Consumer, inhalative, longterm exposition	50 mg/m ³

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54068-28-9 Dioctyltinbis(acetylacetonate)

Dermal	Worker, dermal, longterm exposition	0.07 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	84 mg/m ³
	Worker, inhalative, longterm exposition	84 mg/m ³

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
Inhalative	Worker, inhalative, longterm exposition	1.27 mg/m ³
	Consumer, inhalative, longterm exposition	0.31 mg/m ³

· 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

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

Fresh water	0.062 mg/l
Fresh water sediment	0.22 mg/kg dry weight
Marine water	0.006 mg/l
Marine sediment	0.022 mg/kg dry weight
Soil	0.009 mg/kg
Sewage treatment plant	25 mg/l

54068-28-9 Dioctyltinbis(acetylacetonate)

Fresh water	0.026 mg/l
Fresh water sediment	0.155 mg/kg dry weight
Marine water	0.0026 mg/l
Marine sediment	0.0155 mg/kg dry weight
Soil	0.0158 mg/kg
Sewage treatment plant	1 mg/l
Sporadic release	0.26 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

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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

· **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:**

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

288 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

229 °C

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Not miscible or difficult to mix.

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· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	>0 hPa
· 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:	Fluid
· 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 %
· VOC (EC)	0.00 %
· Solids content:	85.8 %
· 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

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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 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)

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:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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.

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

SECTION 14: Transport information

- | | |
|---------------------------------------|--------------------|
| · 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 |

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· 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 according 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.
- **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.

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Relevant phrases

- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361f Suspected of damaging fertility.
- H371 May cause damage to organs.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS: PSRA**Contact:** PSRA**Date of previous version:** 30.07.2021**Version number of previous version:** 12**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
- Acute Tox. 4: Acute toxicity – Category 4
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1B: Skin sensitisation – Category 1B
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 2: Specific target organ toxicity (single exposure) – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- 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.**

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