# Safety data sheet
**according to 1907/2006/EC, Article 31**

Printing date 24.01.2022 Version number 27 (replaces version 26) Revision: 24.01.2022

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

· **1.1 Product identifier**

· **Trade name:** GRF HT-120 BO 500ML*12 L222
· **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:** Bison QESH
· **1.4 Emergency telephone number:** +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)

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## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**


GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.


GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.


GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**


GHS02 GHS07 GHS08

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**Trade name:** GRF HT-120 BO 500ML*12 L222

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· **Signal word** Danger

· **Hazard-determining components of labelling:**
tetrahydrofuran
butanone
acetone

· **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
P280 Wear protective gloves.
P370+P378 In case of fire: Use to extinguish: Water haze, Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulations.

· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Labelling of packages where the contents do not exceed 125 ml**

· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
tetrahydrofuran
butanone
acetone

· **Hazard statements**
H351 Suspected of causing cancer.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P280 Wear protective gloves.
P501 Dispose of contents/container in accordance with national regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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| · **Determination of endocrine-disrupting properties** | | |
|---|---|---|
| 78-93-3 | butanone | List II |

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## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Adhesive

| · **Dangerous components:** | | |
|---|---|---|
| CAS: 109-99-9<br>EINECS: 203-726-8<br>Index number: 603-025-00-0<br>Reg.nr.: 01-2119444314-46 | tetrahydrofuran<br>Flam. Liq. 2, H225; Carc. 2, H351; Eye Irrit. 2, H319; STOT SE 3, H335, EUH019<br>Specific concentration limits:<br>Eye Irrit. 2; H319: C ≥ 25 %<br>STOT SE 3; H335: C ≥ 25 %<br>Self-react. A; H240: C ≥ 80 % | ≥50-<80% |
| CAS: 78-93-3<br>EINECS: 201-159-0<br>Index number: 606-002-00-3<br>Reg.nr.: 01-2119457290-43 | butanone<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | 10-25% |
| CAS: 67-64-1<br>EINECS: 200-662-2<br>Index number: 606-001-00-8<br>Reg.nr.: 01-2119471330-49-XXXX | acetone<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 1-2.5% |

· **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. If symptoms persist, consult a doctor.
· **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.



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## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Water haze
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **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.
· **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **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.

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## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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· **Storage class:** 3
· **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **109-99-9 tetrahydrofuran** | |
| WEL | Short-term value: 300 mg/m³, 100 ppm<br>Long-term value: 150 mg/m³, 50 ppm<br>Sk |
| **78-93-3 butanone** | |
| WEL | Short-term value: 899 mg/m³, 300 ppm<br>Long-term value: 600 mg/m³, 200 ppm<br>Sk, BMGV |
| **67-64-1 acetone** | |
| WEL | Short-term value: 3620 mg/m³, 1500 ppm<br>Long-term value: 1210 mg/m³, 500 ppm |

| · **DNELs** | | |
|---|---|---|
| **78-93-3 butanone** | | |
| Oral | Consumer, oral, longterm exposition | 31 mg/kg bw/day |
| Dermal | Consumer, dermal, longterm exposition | 412 mg/kg bw/day |
| Inhalative | Consumer, inhalation, longterm exposition | 106 mg/m³ |
| **67-64-1 acetone** | | |
| Oral | Consumer, oral, longterm exposition | 62 mg/kg bw/day |
| Dermal | Consumer, dermal, longterm exposition | 62 mg/kg bw/day |
| Inhalative | Consumer, inhalation, longterm exposition | 200 mg/m³ |

| · **PNECs** | |
|---|---|
| **78-93-3 butanone** | |
| Fresh water | 55.8 mg/l |
| Marine water | 55.8 mg/l |
| Soil | 22.5 mg/kg |
| **67-64-1 acetone** | |
| Fresh water | 10.6 mg/l |
| Marine water | 1.06 mg/l |
| Soil | 29.5 mg/kg |

| · **Ingredients with biological limit values:** | |
|---|---|
| **78-93-3 butanone** | |
| BMGV | 70 µmol/L<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butan-2-one |

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

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· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see item 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.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.
· **Recommended filter device for short term use:**
Filter AX
Filter A
· **Hand protection**
Solvent resistant gloves


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**
Butyl rubber, BR
Recommended thickness of the material: > 0,7 mm
· **Penetration time of glove material**
For the mixture of chemicals mentioned below the penetration time has to be at least 120 minutes (Permeation according to EN 374 Part 3: Level 4).
· **Eye/face protection**


Tightly sealed goggles

Goggles recommended during refilling
· **Body protection:** Solvent resistant protective clothing

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## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Physical state** Fluid

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| | |
|---|---|
| · **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** | 65.5 °C |
| · **Flammability** | Not applicable. |
| · **Lower and upper explosion limit** | |
| · **Lower:** | 1.5 Vol % |
| · **Upper:** | 12 Vol % |
| · **Flash point:** | -21 °C |
| · **Auto-ignition temperature:** | Product is not selfigniting. |
| · **Decomposition temperature:** | Not determined. |
| · **pH** | Not determined. |
| · **Viscosity:** | |
| · **Kinematic viscosity** | Not determined. |
| · **Dynamic at 20 °C:** | 1000 mPas |
| · **Solubility** | |
| · **water:** | Not miscible or difficult to mix. |
| · **Partition coefficient n-octanol/water (log value)** | Not determined. |
| · **Vapour pressure at 20 °C:** | 200 hPa |
| · **Density and/or relative density** | |
| · **Density at 20 °C:** | 0.95 g/cm³ |
| · **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:** | 230 °C |
| · **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · **Solvent content:** | |
| · **Organic solvents:** | 81.9 % |
| · **Solids content:** | 18.1 % |
| · **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 |

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| | |
|---|---|
| · **Flammable liquids** | Highly flammable liquid and vapour. |
| · **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:** Danger of forming toxic pyrolysis products.

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## 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:** | | |
|---|---|---|
| **109-99-9 tetrahydrofuran** | | |
| Oral | LD50 | 2500 mg/kg (rat) |
| **78-93-3 butanone** | | |
| Oral | LD50 | 3300 mg/kg (rat) |
| Dermal | LD50 | 5000 mg/kg (rabbit) |
| **67-64-1 acetone** | | |
| Oral | LD50 | 5800 mg/kg (rat) |
| Dermal | LD50 | 20000 mg/kg (rabbit) |

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **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** Suspected of causing cancer.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.

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· **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
· **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.
· **Sensitisation** Not applicable.
· **Repeated dose toxicity** Not applicable.
· **11.2 Information on other hazards**

| · **Endocrine disrupting properties** | | |
|---|---|---|
| 78-93-3 | butanone | List II |

## 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**
For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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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.

| · **European waste catalogue** | |
|---|---|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |

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

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## SECTION 14: Transport information

| | |
|---|---|
| · **14.1 UN number or ID number** | |
| · **ADR/ADN, IMDG, IATA** | UN1133 |
| · **14.2 UN proper shipping name** | |
| · **ADR/ADN** | 1133 ADHESIVES |
| · **IMDG, IATA** | ADHESIVES |
| · **14.3 Transport hazard class(es)** | |
| · **ADR/ADN** | |
|  | |
| · **Class** | 3 (F1) Flammable liquids. |
| · **Label** | 3 |
| · **IMDG, IATA** | |
|  | |
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |
| · **14.4 Packing group** | |
| · **ADR/ADN, IMDG, IATA** | III |
| · **14.5 Environmental hazards:** | |
| · **Marine pollutant:** | No |
| · **14.6 Special precautions for user** | Warning: Flammable liquids. |
| · **Hazard identification number (Kemler code):** | - |
| · **EMS Number:** | F-E,S-D |
| · **Stowage Category** | A |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · **Transport/Additional information:** | |
| · **Quantity limitations** | On passenger aircraft/rail: 60 L<br>On cargo aircraft only: 220 L |
| · **ADR/ADN** | |
| · **Limited quantities (LQ)** | 5L |
| · **Excepted quantities (EQ)** | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · **Transport category** | 3 |
| · **Tunnel restriction code** | E |

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| | |
|---|---|
| · **IMDG** | |
| · **Limited quantities (LQ)** | 5L |
| · **Excepted quantities (EQ)** | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · **Remarks:** | Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III.<br>See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2 |
| · **UN "Model Regulation":** | UN 1133 ADHESIVES, 3, III |

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## 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.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **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**

· **Regulation (EC) No 273/2004 on drug precursors**

| | | |
|---|---|---|
| 78-93-3 | butanone | 3 |
| 67-64-1 | acetone | 3 |

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

| | | |
|---|---|---|
| 78-93-3 | butanone | 3 |
| 67-64-1 | acetone | 3 |

· **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**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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H351 Suspected of causing cancer.
EUH019 May form explosive peroxides.
EUH066 Repeated exposure may cause skin dryness or cracking.

| · **Classification according to Regulation (EC) No 1272/2008** | |
|---|---|
| Flammable liquids | Bridging principles |
| Serious eye damage/eye irritation<br>Carcinogenicity<br>Specific target organ toxicity (single exposure) | 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:** Bison QESH
· **Contact:** Reach coordinator
· **Date of previous version:** 23.09.2021
· **Version number of previous version:** 26
· **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)
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. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**