

Printing date 20.08.2022

Version number 16 (replaces version 15)

Revision: 20.08.2022

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

1.1 Product identifier

· Trade name: GRF T-88 BO 250ML*24 ENDE

- **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:

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

GHS02 flame

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



Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 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



· Signal word Danger

• Hazard-determining components of labelling: butanone

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(Contd. of page 1) · Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 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. Avoid breathing vapours. P261 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 Signal word Danger · Hazard-determining components of labelling: butanone · Hazard statements H336 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. 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. **Determination of endocrine-disrupting properties** 78-93-3 butanone List II **SECTION 3: Composition/information on ingredients**

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

Dangerous components:

butanone	50-100%
🚯 Flam. Liq. 2, H225; 🚯 Eye Irrit. 2, H319; STOT SE 3,	

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(Contd. of page 2) • 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.
- \cdot 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.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- Water haze
- Alcohol resistant foam
- Fire-extinguishing powder
- Carbon dioxide
- \cdot 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). 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.

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See Section 13 for disposal information.

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.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

78-93-3 butanone				
OEL (Ireian	 Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, IOELV 			
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm			
DNELs				
78-93-3 butanone				
Oral (consumer, oral, longterm exposition	31 mg/kg bw/day		
Dermal (ermal Consumer, dermal, longterm exposition 412 mg/kg bw/day			
Inhalative Consumer, inhalation, longterm exposition 106 mg/m ³				
PNECs				
78-93-3 but	anone			
Fresh water 55.8 mg/l				
Marine water 55.8 mg/l				
Soil	22.5 mg/kg			
A dditional	nformation: The lists valid during the ma	king were used as basis.		

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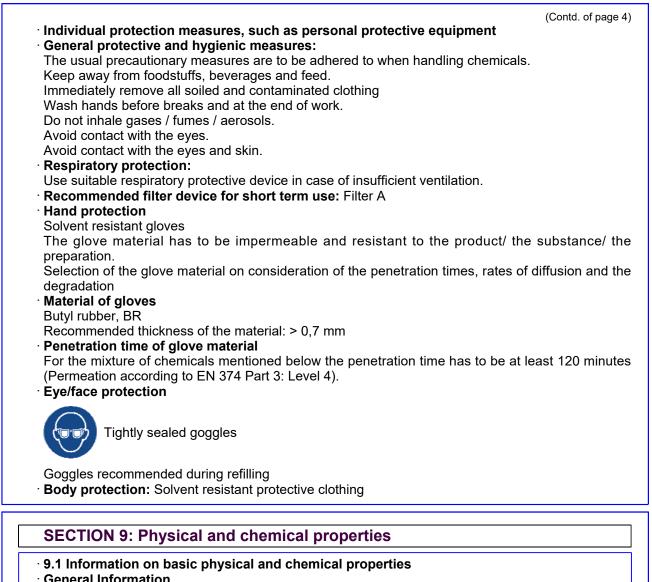


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Ocheral information	
 Physical state 	
· Colour:	

· Odour threshold:

boiling range Flammability

• Melting point/freezing point:

Lower and upper explosion limit

· Odour:

· Lower:

· Upper:

· Flash point:

Fluid Colourless Like ketone Not determined. Undetermined. · Boiling point or initial boiling point and 79-80.5 °C Highly flammable. 1.8 Vol %

11.5 Vol % -9 °C 514 °C Ignition temperature:

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Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	375 mPas
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Vapour pressure at 20 °C:	105 hPa
Density and/or relative density	
Density at 20 °C:	0.883 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	All relevant physical data were determined for th
	mixture. All non-determined data are no
	measurable or not relevant for th
	characterization of the mixture.
Appearance:	
Form:	Fluid
Important information on protection of hea	
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	80.4 %
Solids content:	19.6 %
Change in condition	10.0 //
Evaporation rate	Not determined.
•	
Information with regard to physical haz	ard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
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	
	Void
flammable gases in contact with water	
Oxidising liquids	Void
Oxidising liquids Oxidising solids	Void
Oxidising liquids	

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Desensitised explosives

Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- \cdot Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Danger of forming toxic pyrolysis products.

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:

78-93-3 butanone

Oral LD50 3300 mg/kg (rat)

Dermal LD50 5000 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 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 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.

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• **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.

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.

14.1 UN number or ID number ADR/ADN, IMDG, IATA	UN1133
14.2 UN proper shipping name	
ADR/ADN	1133 ADHESIVES, special provision 640D
IMDG, IATA	ADHESIVES
ADR/ADN	
	3 (F1) Flammable liquids.



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· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR/ADN, IMDG, IATA	II
 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user Hazard identification number (Kemler content EMS Number: Stowage Category 	Warning: Flammable liquids. de): 33 F-E,S-D B
 14.7 Maritime transport in bulk according IMO instruments 	j to Not applicable.
 Transport/Additional information: Quantity limitations 	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
 ADR/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category 	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 50 ml 2
Tunnel restriction code	D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 50
· Remarks:	ml Under certain conditions substances in Class (flammable liquids) can be classified i packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.
· UN "Model Regulation":	UN 1133 ADHESIVES, SPECIAL PROVISIO 640D, 3, II

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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

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

15571-58-1 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- Sunset date: 2025-05-01 stannatetradecanoate

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

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

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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.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

· Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
	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: 19.06.2021

· Version number of previous version: 15

· 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

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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 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 · * Data compared to the previous version altered.

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