

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

Printing date 11.01.2024

Version number 18 (replaces version 17)

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.



GHS07

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





GHS02 GHS07

- · Signal word Danger
- Hazard-determining components of labelling: butanone

(Contd. on page 2)

Revision: 04.01.2024

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www.griffon.eu 1/11



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

Version number 18 (replaces version 17) Revision: 04.01.2024 Printing date 11.01.2024

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

(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:

CAS: 78-93-3

EINECS: 201-159-0

Index number: 606-002-00-3 H336, EUH066

Reg.nr.: 01-2119457290-43

butanone

Flam. Lig. 2, H225; (!) Eye Irrit. 2, H319; STOT SE 3,

(Contd. on page 3)

50-100%

2/11 www.griffon.eu



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

(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.

- · 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

- · 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.

(Contd. on page 4)

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www.griffon.eu 3/11



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

See Section 13 for disposal information.

(Contd. of page 3)

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

Ingredients with limit values that	require monitoring	at the workplace:
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78-93-3 butanone

OEL (Ireland) Short-term value: 900 mg/m³, 300 ppm

Long-term value: 600 mg/m³, 200 ppm

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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 Consumer, dermal, longterm exposition 412 mg/kg bw/day

Inhalative Consumer, inhalation, longterm exposition 106 mg/m³

· PNECs

78-93-3 butanone

Fresh water 55.8 mg/l Marine water 55.8 mg/l Soil 22.5 mg/kg

· 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.

(Contd. on page 5)

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www.griffon.eu 4/11



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

(Contd. of page 4)

· 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:

Use suitable respiratory protective device in case of insufficient ventilation.

· Recommended filter device for short term use: Filter A

· Hand protection

Solvent resistant 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

Butyl rubber, BR

Nitrile rubber, NBR

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 10 minutes (Permeation according to EN 374 Part 3: Level 1).

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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Fluid

Colourless

Like ketone

Not determined.

Undetermined.

· Boiling point or initial boiling point and

boiling range 79-80.5 °C Flammability Highly flammable.

(Contd. on page 6)

IE ·

www.griffon.eu 5/11



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

(Contd. of page 5)

Lower and upper explosion limit
Lower:

Upper:
Flash point:
Auto-ignition temperature:
Decomposition temperature:

Last Vol %

1.8 Vol %
11.5 Vol %

Flash point:

9 °C
514 °C

Not determine

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Not determined.
 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 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 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

• 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 Highly flammable liquid and vapour.

Flammable solids
 Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

(Contd. on page 7)

- IE

www.griffon.eu 6/11



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

(Contd. of page 6)

· 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.

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 butanor	1e	O	n	uta	h	3-3	-93	78	
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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.

(Contd. on page 8)

- IE

www.griffon.eu 7/11



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

· 11.2 Information on other hazards

(Contd. of page 7)

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· 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.

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	UN1133
· 14.2 UN proper shipping name · ADR/ADN · IMDG, IATA	1133 ADHESIVES, special provision 640D ADHESIVES
	(Contd. on page

www.griffon.eu 8/11



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

Version number 18 (replaces version 17) Revision: 04.01.2024 Printing date 11.01.2024

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

(Contd. of page 8) · 14.3 Transport hazard class(es) · ADR/ADN · Class 3 (F1) Flammable liquids. · Label · IMDG. IATA 3 Flammable liquids. · Class · Label · 14.4 Packing group · ADR/ADN, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D Stowage Category · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: **Quantity limitations** On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L · ADR/ADN · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category 2 **Tunnel restriction code** D/E · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 · Remarks: Under certain conditions substances in Class 3 (flammable liquids) can be classified in

(Contd. on page 10)

www.griffon.eu

packinggroup III.



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

(Contd. of page 9)

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	See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, II

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

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

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	
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: 19.06.2021

Version number of previous version: 17

(Contd. on page 11)

IE ·

www.griffon.eu 10/11



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

Printing date 11.01.2024 Version number 18 (replaces version 17) Revision: 04.01.2024

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

(Contd. of page 10)

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

www.griffon.eu 11/11