

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

Version number 30 (replaces version 29) Printing date 19.08.2022 Revision: 19.08.2022

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

- · 1.1 Product identifier
- · Trade name: GRF WDF-05 BO 500ML*12 L193
- 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)

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 GB CLP regulation.

Hazard pictograms







GHS02 GHS07 GHS08

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Trade name: GRF WDF-05 BO 500ML*12 L193

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· Signal word Danger

Hazard-determining components of labelling:

tetrahydrofuran

butanone

· 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.

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

· 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.

· 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 EINECS: 203-726-8 Index number: 603-025-00-0 Reg.nr.: 01-2119444314-46	tetrahydrofuran	≥50-<80%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone ♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-50%

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.

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· 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.

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:

109-99-9 tetrahydrofuran

WEL Short-term value: 300 mg/m³, 100 ppm

Long-term value: 150 mg/m³, 50 ppm

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78-93-3 k	78-93-3 butanone			
Loi	WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV			
· DNELs				
78-93-3 butanone				
Oral	Со	nsumer, oral, longterm exposition	31 mg/kg bw/day	
Dermal	Co	nsumer, dermal, longterm exposition	412 mg/kg bw/day	
Inhalative	e Co	nsumer, inhalation, longterm exposition	106 mg/m³	
PNECs				
78-93-3 butanone				
Fresh water 55.8 mg/l		55.8 mg/l		
Marine water 55.8 mg/l		55.8 mg/l		
Soil 22.5 mg/kg		22.5 mg/kg		
Ingredients with biological limit values:				
78-93-3 butanone				
	MGV 70 µmol/L			
		ım: urine		
Sampling time: post shift				
Parameter: butan-2-one				

- Additional information: The lists valid during the making were used as basis.
- · 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 A
- · Hand protection

Solvent resistant gloves



Protective gloves

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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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
Odour threshold: Not determined.

• Melting point/freezing point: Not determined.

Undetermined.

· Boiling point or initial boiling point and

boiling range 65.5 °C

• Flammability Highly flammable.

· Lower and upper explosion limit

Lower: 1.5 Vol %
Upper: 12 Vol %
Flash point: -21 °C
Ignition temperature: 230 °C

Decomposition temperature: Not determined.

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Not determined.
 675 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: 0.965-0.966 g/cm³ • Relative density Not determined.

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· 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 hea	alth
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	83.1 %
· Water:	0.0 %
· Solids content:	16.9 %
· Change in condition	
· 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	
oubstances and mixtures, which chilt	Void
flammable gases in contact with water	
	Void
flammable gases in contact with water	
flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides	Void Void Void
flammable gases in contact with water Oxidising liquids Oxidising solids	Void 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.

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• 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.

Γ	· LD/LC50 values relevant for classification:			
Г	109-99-9 tetrahydrofuran			
	Oral	LD50	2500 mg/kg (rat)	
Г	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 Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- 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.

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- · 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
	IT. IIUIISSOIL	IIIIOIIIIGUOII

· 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

· IMDG, IATA



· Class 3 Flammable liquids.

· Label

· 14.4 Packing group

· ADR/ADN, IMDG, IATA

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14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Hazard identification number (Kemler co	Warning: Flammable liquids.
EMS Number:	F-E,S-D
Stowage Category	A
14.7 Maritime transport in bulk accordin IMO instruments	g to Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
ADR/ADN Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
Remarks:	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, 3, III

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.

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· REGULATION (EU) 2019/1148

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Regulation (EC) No 273/2004 on drug precursors

78-93-3 butanone

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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

• 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.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

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

Flammable liquids	Bridging principles
Serious eye damage/eye irritation	The classification of the mixture is generally based
Carcinogenicity	on the calculation method using substance data
Specific target organ toxicity (single exposure)	according to Regulation (EC) No 1272/2008.

Department issuing SDS: Bison QESH

· Contact: Reach coordinator

Date of previous version: 28.06.2022 · Version number of previous version: 29

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK 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.

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