

Printing date 01.08.2024 Version number 34 (replaces version 33)

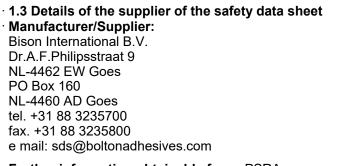
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

• Trade name: GRF UNI-100 XT BO 500ML*12 L220

- **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



Further information obtainable from: PSRA 1.4 Emergency telephone number: Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

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 GB CLP regulation.
- Hazard pictograms



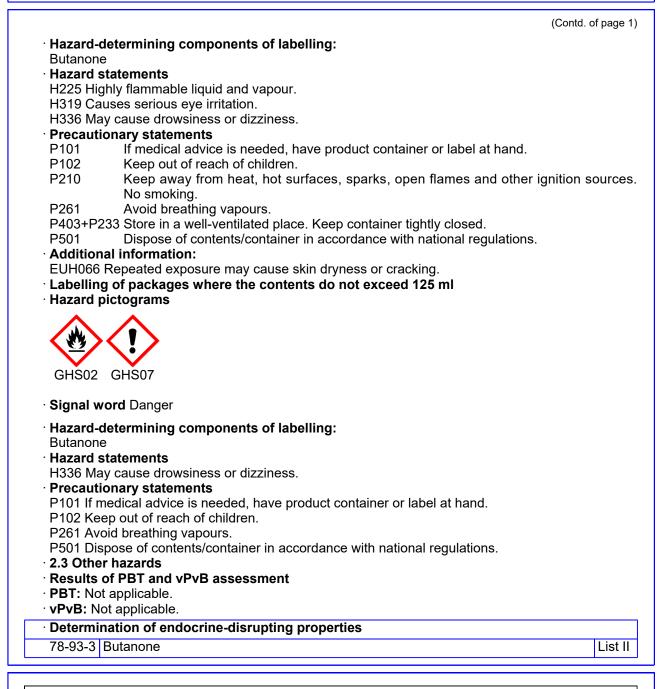
· Signal word Danger

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SECTION 3: Composition/information on ingredients

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

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Trade name: GRF UNI-100 XT BO 500ML*12 L220

CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43- XXXX	Butanone Flam. Liq. 2, H225; () Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	50-100%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119565113-46 01-2119555270-46	Butylated hydroxytoluene Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%

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.

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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.

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.

	rol parameters		
Ingredie	ngredients with limit values that require monitoring at the workplace:		
78-93-3 Butanone			
WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV			
78-93-3 Butanone			
Oral	Consumer, oral, longterm exposition	31 mg/kg bw/day	
Dermal	Worker, dermal, longterm exposition	1161 mg/kg bw/day	
	Consumer, dermal, longterm exposition	412 mg/kg bw/day	



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	Worker, inhalative,	longterm exposition 600 mg/m ³	(Contd. of pag
Consumer, inhalativ		ve, longterm exposition 106 mg/m³	
PNECs			
78-93-3 E	Sutanone		
	ondary Poisoning	1000 mg/kg	
	sh water	55.8 mg/l	
	sh water sediment	284.7 mg/kg dry weight	
	ine water	55.8 mg/l	
	ine sediment	284.7 mg/kg dry weight	
Soil		22.5 mg/kg	
	age treatment plant	0.0	
	radic release	55.8 mg/l	
	nts with biological I	•	
78-93-3 E	•		
S	ledium: urine ampling time: post si arameter: butan-2-oi		
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8.2 Expose Appropri Individua General J The usua Keep awa Immediata Wash har Do not inh Avoid cor Avoid cor Respirato Use suita Recomm Hand pro Solvent re The glov preparatio Selection degradati Material o Recomments Butyl rubb	sure controls ate engineering co al protection measure protective and hygi l precautionary measure ay from foodstuffs, be ely remove all soiled ands before breaks ar nale gases / fumes / atact with the eyes. atact with the eyes ar ory protection: ble respiratory prote- ended filter device atection esistant gloves e material has to b on. of the glove material on of gloves ended thickness of the per, BR ber, NBR	ntrols No further data; see section 7. res, such as personal protective equipment enic measures: sures are to be adhered to when handling chemica everages and feed. and contaminated clothing d at the end of work. aerosols. aerosols. ad skin. ctive device in case of insufficient ventilation. for short term use: Filter A re impermeable and resistant to the product/ I on consideration of the penetration times, rates	the substance/



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· 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: Phy	vsical and chemical	properties
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9.1 Information on basic physical and chem	ical properties
General Information	
· Physical state	Fluid
· 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	79-80.5 °C
· Flammability	Highly flammable.
• Lower and upper explosion limit	
· Lower:	1.8 Vol %
· Upper:	11.5 Vol %
Flash point:	-9 °C
• Auto-ignition temperature:	514 °C
· Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	1450 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:	0.96-0.962 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	
9.2 Other information	All relevant physical data were determined for the mixture. All non-determined data are not
	mixture. All non-determined data are not measurable or not relevant for the
	characterization of the mixture.
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· Appearance:	
Form:	Fluid
 Important information on protection of heat 	alth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o
	explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	77.2 %
· Water:	0.0 %
· Solids content:	22.7 %
· Change in condition	
· Evaporation rate	Not determined.
Aerosols	Void
Flammable gases	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	
flammable gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void
	Void
· Corrosive to metals	Volu

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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	ormation on hazard classes as defined in Regulation (EC) No 1272/2008 oxicity Based on available data, the classification criteria are not met.		
· LD/LC50 values relevant for classification:			
78-93-3 Butanone Oral LD50 >2193 mg/kg (rat)			
	0 Butylated hydroxytoluene		
Oral	LD50 890 mg/kg (rat)		
Skin co Serious Causes Respira Germ co Not app Based co Carcino Reproco STOT-s STOT-r	rrosion/irritation Based on available data, the classification criteria are not met. seye damage/irritation serious eye irritation. itory or skin sensitisation Based on available data, the classification criteria are not met ell mutagenicity		
Additio Acute e Sensiti Repeat	nal toxicological information: offects (acute toxicity, irritation and corrosivity) Not applicable. sation Not applicable. ed dose toxicity Not applicable. ormation on other hazards		
Additio Acute e Sensiti Repeat 11.2 Int	nal toxicological information: iffects (acute toxicity, irritation and corrosivity) Not applicable. sation Not applicable. ed dose toxicity Not applicable.		



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12.7 Other adverse effects

· Additional ecological information:

· General notes:

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 IMDG, IATA	1133 ADHESIVES ADHESIVES	
14.3 Transport hazard class(es)		
ADR/ADN		
Class	3 (F1) Flammable liquids. 3	
Label IMDG, IATA	0	
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group ADR/ADN, IMDG, IATA	Ш	
14.5 Environmental hazards: Marine pollutant:	No	



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 14.6 Special precautions for user Hazard identification number (Kemler cod 	Warning: Flammable liquids. e): -
· EMS Number:	F-E,S-D
Stowage Category	A
 14.7 Maritime transport in bulk according IMO instruments 	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)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 m
	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 m
	Maximum net quantity per outer packaging: 100
	ml
· Remarks:	For substances with class 3 according to IMDC
	Code chapter 2.3.2.2 packing group is classifie
	in packing group III, as viscosity is in accordance
	with requirements (flow time $t > 100s$).
UN "Model Regulation":	UN 1133 ADHESIVES, 3, III

n	5.1 Safety, health and environmental regulations/legislation specific for the substance on nixture Poisons Act
F	Regulated explosives precursors
Ν	lone of the ingredients is listed.
F	Regulated poisons
Ν	lone of the ingredients is listed.
F	Reportable explosives precursors
Ν	lone of the ingredients is listed.
F	Reportable poisons
Ν	lone of the ingredients is listed.
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· 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

 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.

Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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/irritation 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: PSRA Contact: PSRA Date of previous version: 17.05.2024 Version number of previous version: 33 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchathe 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 LEINECS: European Inventory of Existing Commercial CheELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the America DNEL: Derived No-Effect Level (UK REACH) 	mical Substances

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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 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 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1