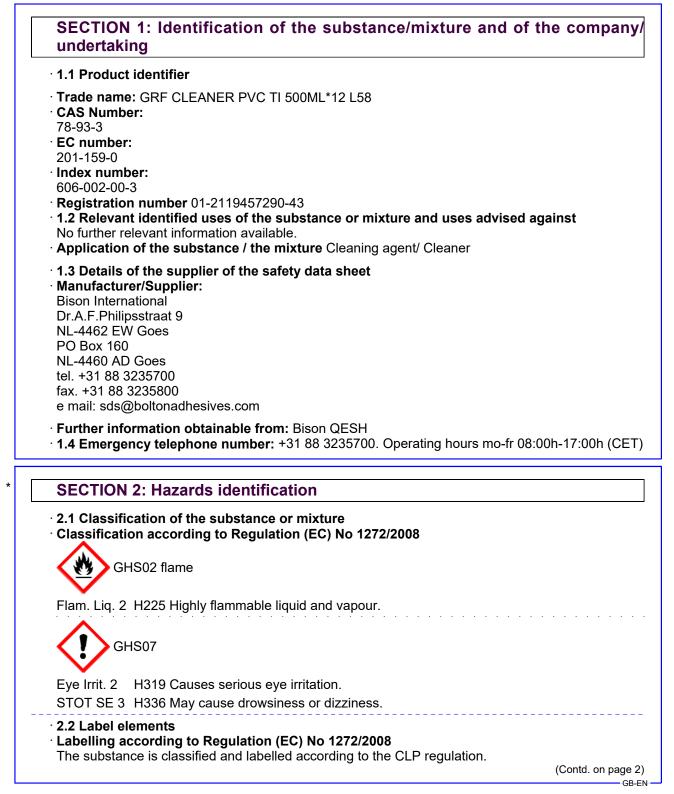


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· Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labelling: butanone
- · 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.
- P261 Avoid breathing vapours.
- P370+P378 In case of fire: Use to extinguish: Water haze, Alcohol resistant foam, Fireextinguishing 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



- · 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.

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· Determination of endocrine-disrupting properties

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List II

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 78-93-3 butanone
- Identification number(s)
- · EC number: 201-159-0
- · Index number: 606-002-00-3

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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters · Ingredients 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 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 Consumer, inhalation, longterm exposition 106 mg/m³ Inhalative (Contd. on page 5)



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	(Contd. of page 4)				
PNECs					
78-93-3 butar					
Fresh water	-				
Marine water 55.8 mg/l					
Soil 22.5 mg/kg					
-	with biological limit values:				
78-93-3 butar					
Samp Paran	um: urine Jling time: post shift neter: butan-2-one				
• Additional in	formation: The lists valid during the making were used as basis.				
 Individual prote General prote General prote The usual pre Keep away fro Immediately re Wash hands b Do not inhale Avoid contact Avoid contact Avoid contact Respiratory p Use suitable r Recommende Hand protect Solvent resista The glove may preparation. Selection of the degradation Material of gl Butyl rubber, I Recommende Penetration t For the mixture (Permeation a) Eye/face profesion 	engineering controls No further data; see item 7. otection measures, such as personal protective equipment ective and hygienic measures: ecautionary measures are to be adhered to when handling chemicals. om foodstuffs, beverages and feed. remove all solied and contaminated clothing before breaks and at the end of work. gases / fumes / aerosols. : with the eyes. : with the eyes and skin. protection: respiratory protective device in case of insufficient ventilation. led filter device for short term use: Filter A tion : ant gloves : aterial has to be impermeable and resistant to the product/ the substance/ the the glove material on consideration of the penetration times, rates of diffusion and the loves BR ed thickness of the material: > 0,7 mm time of glove material re of chemicals mentioned below the penetration time has to be at least 120 minutes according to EN 374 Part 3: Level 4).				
	mmended during refilling tion: Solvent resistant protective clothing				

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9.1 Information on basic physical and che	mical properties
General Information	
Physical state	Fluid
Colour:	Colourless
Odour:	Like ketone
Odour threshold:	Not determined.
Melting point/freezing point:	-86.3 °C
Boiling point or initial boiling point and	
boiling range	79-80.5 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	1.8 Vol %
Upper:	11.5 Vol %
Flash point:	-9 °C
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	0.4 mPas
Solubility	
water at 20 °C:	290 g/l
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:	0.804-0.807 g/cm ³
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 n
	measurable or not relevant for th
	characterization of the mixture.
Appearance:	
Form:	Fluid
Important information on protection of he	alth
and environment, and on safety.	
Ignition temperature:	514 °C
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
Organic solvents:	100.0 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haz	ard
classes	
Explosives	Void



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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	
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 1	1: 1	[oxicolo	gical i	information
			gioui	

• **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.

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List II

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• 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

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) (Assessment by list): 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

UN1193

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 14.2 UN proper shipping name ADR/ADN 	1193 ETHYL METHYL KETONE (METHY ETHYL KETONE)
· IMDG, IATA	ETHYL METHYL KETONE (METHYL ETHY KETONE)
14.3 Transport hazard class(es)	
ADR/ADN	
	3 (F1) Flammable liquids.
Label IMDG, IATA	3
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR/ADN, IMDG, IATA	
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	33 F-E,S-D
Stowage Category	B
· 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) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 n Maximum net quantity per outer packaging: 5
 Transport category Tunnel restriction code 	ml 2 D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2

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· · Remarks:	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
· UN "Model Regulation":	UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 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 Substance is not listed.
- Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t

 \cdot 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

Substance is not listed.

· REGULATION (EU) 2019/1148

Regulation (EC) No 273/2004 on drug precursors

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

· 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.

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.

- · Department issuing SDS: Bison QESH
- · Contact: Reach coordinator
- Date of previous version: 26.07.2021

· Version number of previous version: 140

• 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 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 DBT: 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.