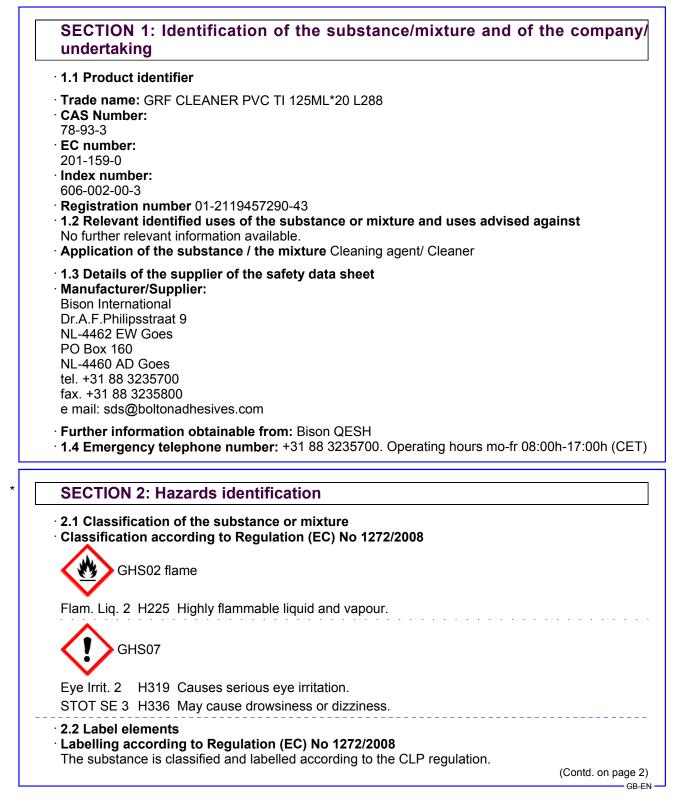


Printing date 19.06.2021

Version number 140

Revision: 07.01.2021





Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

(Contd. of page 1)

## Trade name: GRF CLEANER PVC TI 125ML\*20 L288

· 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 local/regional/national/international 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.

(Contd. on page 3)



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

(Contd. of page 2)

#### Trade name: GRF CLEANER PVC TI 125ML\*20 L288

· **vPvB:** Not applicable.

#### **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.

(Contd. on page 4)

GB-FN



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

## Trade name: GRF CLEANER PVC TI 125ML\*20 L288

 $(\mathbf{c})$ atd of - - -

		(Contd. of page 3)
SECTIC	N 6: Accidental release measures	;
Wear pro 6.2 Envir 6.3 Meth Send for Absorb w Dispose o Ensure a 6.4 Refer See Sect See Sect	<b>onal precautions, protective equipment a</b> tective equipment. Keep unprotected person <b>onmental precautions:</b> Do not allow to ent <b>ods and material for containment and cle</b> recovery or disposal in suitable receptacles ith liquid-binding material (sand, diatomite, a contaminated material as waste according to dequate ventilation. <b>rence to other sections</b> ion 7 for information on safe handling. ion 8 for information on personal protection ion 13 for disposal information.	ns away. ter sewers/ surface or ground water. <b>eaning up:</b> acid binders, universal binders, sawdust). o item 13.
SECTIO	N 7: Handling and storage	
Ensure ge Ensure ge Prevent fe • <b>Informat</b> Keep igni	autions for safe handling bod interior ventilation, especially at floor lev bod ventilation/exhaustion at the workplace. formation of aerosols. fon about fire - and explosion protection: tion sources away - Do not smoke. gainst electrostatic charges.	
Storage: Requiren Informati Further i Keep con Store in c Storage	itions for safe storage, including any including any including any including any including about storage in one common storage information about storage conditions: tainer tightly sealed. sool, dry conditions in well sealed receptacle class: 3 ific end use(s) No further relevant informat	otacles: Store in a cool location. le facility: Not required.
SECTIC	N 8: Exposuro controls/porconal	protection
· 8.1 Contr · Addition · Ingredier 78-93-3 t WEL Sho Lor	ort-term value: 899 mg/m³, 300 ppm ng-term value: 600 mg/m³, 200 ppm	facilities: No further data; see item 7.
Sk,	BMGV	
78-93-3 b	utanone	
Oral	Consumer, oral, longterm exposition	31 mg/kg bw/day

(Contd. on page 5)



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

### Trade name: GRF CLEANER PVC TI 125ML\*20 L288

Dermal	Consumer, dermal, longterm exposition 412 mg/kg bw/day	page
Inhalative	Consumer, inhalation, longterm exposition 106 mg/m <sup>3</sup>	
· PNECs		
78-93-3 b	tanone	
Fresh wat		
Marine water 55.8 mg/l		
Soil 22.5 mg/kg		
· Ingredien	s with biological limit values:	
78-93-3 b	tanone	
Sa	umol/L dium: urine npling time: post shift ameter: butan-2-one	
· Additiona	information: The lists valid during the making were used as basis.	
Avoid con Avoid con	le gases / fumes / aerosols.	
Use suitat Recomme Protectio Solvent re The glove preparatio Selection degradatio Material o Butyl rubb	act with the eyes and skin. <b>y protection:</b> e respiratory protective device in case of insufficient ventilation. <b>nded filter device for short term use:</b> Filter A <b>of hands:</b> istant gloves material has to be impermeable and resistant to the product/ the substanc f the glove material on consideration of the penetration times, rates of diffusion a <b>gloves</b> r, BR	
Use suitat Recomme Protectio Solvent re The glove preparatio Selection degradatio Material o Butyl rubb Recomme Penetratio For the m	act with the eyes and skin. y protection: e respiratory protective device in case of insufficient ventilation. nded filter device for short term use: Filter A of hands: istant gloves material has to be impermeable and resistant to the product/ the substance. f the glove material on consideration of the penetration times, rates of diffusion a gloves r, BR ded thickness of the material: > 0,7 mm n time of glove material ture of chemicals mentioned below the penetration time has to be at least 120 m n according to EN 374 Part 3: Level 4).	nd tl
Use suitat Recomme Protectio Solvent re The glove preparatio Selection degradatio Material of Butyl rubb Recomme Penetratio For the m (Permeation)	act with the eyes and skin. y protection: e respiratory protective device in case of insufficient ventilation. nded filter device for short term use: Filter A of hands: istant gloves material has to be impermeable and resistant to the product/ the substance. f the glove material on consideration of the penetration times, rates of diffusion a gloves r, BR ded thickness of the material: > 0,7 mm n time of glove material ture of chemicals mentioned below the penetration time has to be at least 120 m n according to EN 374 Part 3: Level 4).	nd tl



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

(Contd. of page 5)

Trade name: GRF CLEANER PVC TI 125ML\*20 L288

• **Body protection:** Solvent resistant protective clothing

9.1 Information on basic physical and c General Information Appearance:	hemical properties
Form:	Fluid
Colour:	Colourless
Odour: Odour threshold:	Like ketone Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	-86.3 °C
Initial boiling point and boiling range:	
Flash point:	-9 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	514 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.8 Vol %
Upper:	11.5 Vol %
Vapour pressure at 20 °C:	105 hPa
Density at 20 °C:	0.804-0.807 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density Evaporation rate	Not determined. Not determined.
•	Not determined.
Solubility in / Miscibility with water at 20 °C:	290 g/l
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic at 20 °C:	0.4 mPas
Kinematic:	Not determined.
Organic solvents:	100.0 %
Solids content:	0.0 %



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

(Contd. of page 6)

## Trade name: GRF CLEANER PVC TI 125ML\*20 L288

#### • 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.

# **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 toxicological effects
- 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)

#### Primary irritant effect:

· 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.
- Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- · Sensitisation Not applicable.
- Repeated dose toxicity Not applicable.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Not applicable.
- · 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.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

(Contd. on page 8)

GB-EN



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

(Contd. of page 7)

#### Trade name: GRF CLEANER PVC TI 125ML\*20 L288

• **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.
- 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.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **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.

	UN1193
· ADR/ADN, IMDG, IATA	011195
<ul> <li>14.2 UN proper shipping name</li> <li>ADR/ADN</li> </ul>	1193 ETHYL METHYL KETONE (METHY ETHYL KETONE)
· IMDG, IATA	ETHYL METHYL KETONE (METHYL ETHY KETONE)
· 14.3 Transport hazard class(es)	
Class	3 (F1) Flammable liquids.
· Label	3



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

### Trade name: GRF CLEANER PVC TI 125ML\*20 L288

	(Contd. of page
IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR/ADN, IMDG, IATA	II
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D B
<ul> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
<ul> <li>Transport/Additional information:</li> <li>Quantity limitations</li> </ul>	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 m Maximum net quantity per outer packaging: 50 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 m
· Remarks:	Maximum net quantity per outer packaging: 50 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 1193 ETHYL METHYL KETONE (METHY

(Contd. on page 10)



Printing date 19.06.2021

Version number 140

Revision: 07.01.2021

#### Trade name: GRF CLEANER PVC TI 125ML\*20 L288

(Contd. of page 9)

### 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
- · 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.

· 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 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 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.

GB-EN