

Printing date 21.06.2024

Version number 145 (replaces version 144)

Revision: 21.06.2024

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

1.1 Product identifier

- Trade name: GRF CLEANER PVC TI 500ML*12 L58
- · CAS Number:
- 78-93-3
- EC number:
- 201-159-0
- · Index number:
- 606-002-00-3
- · Registration number 01-2119457290-43
- **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 Cleaning agent/ Cleaner
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Bison International B.V. 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: 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



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 substance is classified and labelled according to the GB CLP regulation.

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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.
- 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.
- 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		
	nts with limit values that require monitor	ing at the workplace:	
78-93-3	outanone		
	ort-term value: 899 mg/m³, 300 ppm		
Lo	ng-term value: 600 mg/m³, 200 ppm		
Sk	BMGV		
DNELs			
78-93-3 I	outanone		
Oral	Consumer, oral, longterm exposition	31 mg/kg bw/day	
Dermal	Worker, dermal, longterm exposition	1161 mg/kg bw/day (rat)	
	Consumer, dermal, longterm exposition	412 mg/kg bw/day	



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Inholativ-	Morker int -	lativa langtarma avecation	600	3 (rot)	(00)	ntd. of page
innalative		lative, longterm exposition	600 mg/m	. ,		
	Consumer, in	nhalative, longterm expositior	106 mg/m			
PNECs						
78-93-3 b						
Fresh wat		55.8 mg/l				
Fresh wat	ter sediment	284.7 mg/kg dry weight (rat)			
Marine wa	ater	55.8 mg/l				
Marine se	diment	284.7 mg/kg dry weight (rat)			
Soil		22.5 mg/kg				
Sewage t	reatment plant	709 mg/l (rat)				
Sporadic	release	55.8 mg/l (rat)				
Ingredier	its with biolog	gical limit values:				
78-93-3 b	utanone					
BMGV 70) µmol/L					
	edium: urine					
	ampling time: p arameter: butai					
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8.2 Expos Appropri Individua General p The usual Keep awa Immediate Wash har Do not inh Avoid con Respirate Use suital Recomme Solvent re The glow preparatio Selection degradatio Material o Recomme Butyl rubb Nitrile rub Recomme For the m	sure controls ate engineerin I protection more protective and I precautionary by from foodstu- ely remove all s ands before breat and gases / fur tact with the ey- pry protection ble respiratory ended filter de tection esistant gloves e material has on. of the glove more prof gloves ended thickness per, BR ber, NBR ended thickness on time of glo ixture of chem	ng controls No further data; neasures, such as persona d hygienic measures: y measures are to be adhered uffs, beverages and feed. soiled and contaminated clot aks and at the end of work. mes / aerosols. eyes. eyes and skin. 1: protective device in case of i evice for short term use: Fi is to be impermeable and n material on consideration of the so of the material: > 0,12 mm	see section protective to when ha ning nsufficient v ter A	7. equipment andling chem rentilation. the production times, rational sector of the se	nicals. ct/ the subs tes of diffus be at least	ion and th



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(Contd. of page 5) 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

Lyenace protectio



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 chem	ical 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	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:	0.4 mPas
Solubility	
· water at 20 °C:	290 g/l
Partition coefficient n-octanol/water (log	g.·
value)	Not determined.
· Vapour pressure at 20 °C:	105 hPa
· Density and/or relative density	
· Density at 20 °C:	0.804-0.807 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
A 100 000000000000000000000000000000000	characterization of the mixture.
· Appearance:	
· Form:	Fluid
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Important information on protection of her	
Important information on protection of heat	aith
and environment, and on safety.	Not determined.
· Explosive properties:	Product is not explosive. However, formation
· Solvent content:	explosive air/vapour mixtures are possible.
· Organic solvents:	100.0 %
· VOC (EC)	100.00 %
· Solids content:	0.0 %
· Molecular weight	72.11 g/mol
Change in condition	Not determined.
· Evaporation rate	Not determined.
· Information with regard to physical haza	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	
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.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** Danger of forming toxic pyrolysis products.

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SECTIO	N 11: To	kicological information	
		hazard classes as defined in Regulation (I on available data, the classification criteria	
	•	vant for classification:	
78-93-3 b			
Oral	LD50	>2193 mg/kg (rat)	
Dermal	LD50	>8050 mg/kg (rabbit)	
		>5000 mg/l (rat) tion Based on available data, the classificat	
Causes se Respirato Germ cell Not applic Based on Carcinog Reproduc STOT-sin STOT-rep Aspiratio Additiona Acute effe Sensitisa Repeated 11.2 Infor	I mutagen able. available o enicity Bas ctive toxic gle expos beated exp n hazard E al toxicolo ects (acuto tion Not ap I dose toxi mation on	ritation. sensitisation Based on available data, the ocity ata, the classification criteria are not met. ed on available data, the classification criter by Based on available data, the classification are May cause drowsiness or dizziness. osure Based on available data, the classification criter by Cause drowsiness or dizziness. osure Based on available data, the classification criter ased on available data, the classification criter ical information: toxicity, irritation and corrosivity) Not ap plicable. city Not applicable. other hazards	ria are not met. n criteria are not met. ation criteria are not met. teria are not met.
· Endocrin	e disruptir	g properties	List II
SECTIO	N 12. Ec	ological information	
 12.1 Toxic Aquatic to 12.2 Pers 12.3 Bioa 12.4 Mobi 12.5 Resu PBT: Not vPvB: Not 12.6 Endot 	city oxicity: No istence an ccumulati ility in soil ults of PBT applicable t applicable ocrine disr	further relevant information available. d degradability No further relevant informat re potential No further relevant information a No further relevant information available. and vPvB assessment	available.

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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	UN1193
14.2 UN proper shipping name ADR/ADN	1193 ETHYL METHYL KETONE (METHY
IMDG, IATA	ETHYL KETONE) ETHYL METHYL KETONE (METHYL ETHY KETONE)
14.3 Transport hazard class(es)	
ADR/ADN	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR/ADN, IMDG, IATA	11



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· 14.5 Environmental hazards: · Marine pollutant:	(Contd. of page)
• 14.6 Special precautions for user • Hazard identification number (Kemler coc • EMS Number: • Stowage Category	Warning: Flammable liquids. de): 33 F-E,S-D B
 14.7 Maritime transport in bulk according IMO instruments 	to 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 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1193 ETHYL METHYL KETONE (METHY 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

· 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.

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· 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: PSRA
- · Department issuing SDS: P
- Contact: PSRA
- Date of previous version: 17.05.2024
- · Version number of previous version: 144

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) VOC: Volatile Organic Compounds (USA, EU) 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3