

Printing date 05.12.2024 Version number 149 (replaces version 148) Revision: 05.12.2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier Trade name: GRF CLEANER PVC TI 1L*6 L58 · CAS Number: 78-93-3 · EC number: 201-159-0 · Index number: 606-002-00-3 · Registration number 01-2119457290-43-XXXX 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** 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: Bison and Griffon products: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET) UHU products: + 49 (0) 30/19240 (Notruf). Operating hours mo-fr 08:00h-17:00h (CET) For detailed information contact the national Poison Centre @ https://poisoncentres.echa.europa.eu/appointed-bodies 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. 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 CLP regulation. (Contd. on page 2) EU



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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 smokina.
- P261 Avoid breathing vapours.
- P280 Wear eye protection / face protection.
- 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.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapours.
- P280 Wear eye protection / face protection.
- 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:

 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.

	ol parameters		
	ts with limit values that require monitor	ing at the workplace:	
78-93-3 Butanone			
IOELV Short-term value: 900 mg/m ³ , 300 ppm			
Lc	Long-term value: 600 mg/m³, 200 ppm		
DNELs			
78-93-3 B	utanone		
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	
	Worker, inhalative, shortterm exposition	900 mg/m ³	



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		longterm exposition	600 mg/m ³	
	Consumer DNEL, a		450 mg/m ³	
		ve, longterm exposition	106 mg/m ³	
·PNECs				
	3 Butanone	1000		
	econdary Poisoning	1000 mg/kg		
	resh water	55.8 mg/l		
	resh water sediment	284.7 mg/kg dry weigh	t	
	larine water	55.8 mg/l	4	
	larine sediment	284.7 mg/kg dry weigh	t	
	oil	22.5 mg/kg		
	ewage treatment plant	-		
	poradic release	55.8 mg/l	king were used as basis.	
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: Use suitable respiratory protective device in case of insufficient ventilation. • Recommended filter device for short term use: Filter A • Hand protection Solvent resistant gloves				
Immedi Wash h Do not Avoid c Avoid c • Respira Use sui • Recom • Hand p	iately remove all soiled nands before breaks an inhale gases / fumes / contact with the eyes. contact with the eyes ar atory protection: itable respiratory protect mended filter device protection	and contaminated cloth d at the end of work. aerosols. d skin. stive device in case of ir	nsufficient ventilation.	cals.
Immedi Wash h Do not Avoid c Avoid c Respir Use sui Recom Hand p Solvent	iately remove all soiled nands before breaks an inhale gases / fumes / i contact with the eyes. contact with the eyes ar atory protection: itable respiratory protect ordection t resistant gloves Protective gloves	and contaminated cloth d at the end of work. aerosols. d skin. ctive device in case of ir for short term use: Fil	nsufficient ventilation.	



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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

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:	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 (78-93-3 Butanone)		
Flammability	Highly flammable.		
· Lower and upper explosion limit			
· Lower:	1.8 Vol % (78-93-3 Butanone)		
· Upper:	11.5 Vol % (78-93-3 Butanone)		
· Flash point:	-9 °C		
Auto-ignition temperature:	514 °C (78-93-3 Butanone)		
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	200 9,1		
value)	Not determined.		
· Vapour pressure at 20 °C:	105 hPa (78-93-3 Butanone)		
· 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 no		
	measurable or not relevant for the		
A	characterization of the mixture.		
Appearance:			
· Form:	Fluid		
	(Contd. on page		



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Important information on protection of hea	alth
and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	100.0 %
VOC (EC)	100.00 %
Solids content:	0.0 %
Molecular weight	72.11 g/mol
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	
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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	Acute toxicity 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)
	Dermal LD50 >8050 mg/kg (rat)
	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
	Germ cell mutagenicity
	Not applicable. Record on surjuchts data, the classification criteria are not mot
	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.
	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
	List
	SECTION 12: Ecological information

- **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:

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 ETHYL KETONE)
IMDG, IATA	ETHYL METHYL KETONE (METHYL ETHY KETONE)
14.3 Transport hazard class(es)	
· Class · Label	3 (F1) Flammable liquids. 3
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: 	No
 14.6 Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category 	Warning: Flammable liquids. : 33 F-E,S-D 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 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: DSDA
- · Department issuing SDS: PSRA
- · Contact: PSRA
- Date of previous version: 06.09.2024
- · Version number of previous version: 148

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 (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

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