

### 6120029 - GRF CLEANER PVC TI 1L\*6 L58

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

# 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 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: Bison QESH · 1.4 Emergency telephone number: Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9. Tel 01 8092566 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) - IE-EN



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

(Contd. of page 1)

Trade name: GRF CLEANER PVC TI 1L\*6 L58

· 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: 19.06.2021

(Contd. of page 2)

Trade name: GRF CLEANER PVC TI 1L\*6 L58

· 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)

IE-EN



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

#### Trade name: GRF CLEANER PVC TI 1L\*6 L58

(Contd. of page 3)

# 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). Dispose contaminated material as waste according to item 13. 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 · Additional information about design of technical facilities: No further data; see item 7. · Ingredients with limit values that require monitoring at the workplace: 78-93-3 butanone OEL (Ireland) Short-term value: 900 mg/m<sup>3</sup>, 300 ppm Long-term value: 600 mg/m<sup>3</sup>, 200 ppm Sk, IOELV IOELV (EU) Short-term value: 900 mg/m<sup>3</sup>, 300 ppm Long-term value: 600 mg/m<sup>3</sup>, 200 ppm (Contd. on page 5) IE-EN



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

## Trade name: GRF CLEANER PVC TI 1L\*6 L58

| 78-93-3 but                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--|
| 10 00 0 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | anone                                                                                                                                                                                                                                                                       |                                  |  |
| Oral C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Consumer, oral, longterm exposition                                                                                                                                                                                                                                         | 31 mg/kg bw/day                  |  |
| Dermal C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Consumer, dermal, longterm exposition                                                                                                                                                                                                                                       | 412 mg/kg bw/day                 |  |
| Inhalative C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | consumer, inhalation, longterm exposition                                                                                                                                                                                                                                   | 106 mg/m³                        |  |
| PNECs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                             |                                  |  |
| 78-93-3 but                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | anone                                                                                                                                                                                                                                                                       |                                  |  |
| Fresh water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ter 55.8 mg/l                                                                                                                                                                                                                                                               |                                  |  |
| Marine wate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 55.8 mg/l                                                                                                                                                                                                                                                                   |                                  |  |
| Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22.5 mg/kg                                                                                                                                                                                                                                                                  |                                  |  |
| Additional i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | nformation: The lists valid during the ma                                                                                                                                                                                                                                   | aking were used as basis.        |  |
| The usual provides the usual pro | stant gloves<br>material has to be impermeable and r<br>the glove material on consideration of th<br>gloves<br>; BR<br>ded thickness of the material: > 0,7 mm<br>time of glove material<br>ure of chemicals mentioned below the p<br>according to EN 374 Part 3: Level 4). | hing<br>nsufficient ventilation. |  |

(Contd. on page 6)



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

Trade name: GRF CLEANER PVC TI 1L\*6 L58

(Contd. of page 5)

| 9.1 Information on basic physical and of General Information | chemical properties                                                                                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              |                                                                                                                                                              |
| Appearance:<br>Form:                                         | Fluid                                                                                                                                                        |
| Colour:                                                      | Colourless                                                                                                                                                   |
| Odour:                                                       | Like ketone                                                                                                                                                  |
| Odour threshold:                                             | Not determined.                                                                                                                                              |
| pH-value:                                                    | Not determined.                                                                                                                                              |
| Change in condition                                          |                                                                                                                                                              |
| Melting point/freezing point:                                | -86.3 °C                                                                                                                                                     |
| Initial boiling point and boiling range                      | : 79-80.5 °C                                                                                                                                                 |
| 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/cm³                                                                                                                                            |
| Relative density                                             | Not determined.                                                                                                                                              |
| Vapour density                                               | Not determined.                                                                                                                                              |
| Evaporation rate                                             | 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 %                                                                                                                                                        |
| 9.2 Other information                                        | All relevant physical data were determined for the mixture. All non-determined data are not measurable not relevant for the characterization of the mixture. |

(Contd. on page 7)



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

Trade name: GRF CLEANER PVC TI 1L\*6 L58

(Contd. of page 6)

#### **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.
- 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.

(Contd. on page 8)



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

(Contd. of page 7)

#### Trade name: GRF CLEANER PVC TI 1L\*6 L58

#### · 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.

| 14.1 UN-Number<br>ADR/ADN, IMDG, IATA   | UN1193                                           |
|-----------------------------------------|--------------------------------------------------|
| 14.2 UN proper shipping name<br>ADR/ADN | 1193 ETHYL METHYL KETONE (METHY<br>ETHYL KETONE) |
| IMDG, IATA                              | ETHYL METHYL KETONE (METHYL ETHY<br>KETONE)      |
| 14.3 Transport hazard class(es)         |                                                  |
| ADR/ADN                                 |                                                  |
|                                         |                                                  |
| Class                                   | 3 (F1) Flammable liquids.                        |
| Label                                   | 3                                                |
| IMDG, IATA                              |                                                  |
|                                         |                                                  |
|                                         |                                                  |



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

Trade name: GRF CLEANER PVC TI 1L\*6 L58

|                                                                         | (Contd. of page                                                                                                                                                                                                    |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Label                                                                   | 3                                                                                                                                                                                                                  |
| 14.4 Packing group<br>ADR/ADN, IMDG, IATA                               | II                                                                                                                                                                                                                 |
| 14.5 Environmental hazards:<br>Marine pollutant:                        | No                                                                                                                                                                                                                 |
| Hazard identification number (Kemler code):<br>EMS Number:              | Warning: Flammable liquids.<br>33<br>F-E,S-D<br>B                                                                                                                                                                  |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable.                                                                                                                                                                                                    |
|                                                                         | On passenger aircraft/rail: 5 L<br>On cargo aircraft only: 60 L                                                                                                                                                    |
| Excepted quantities (EQ)<br>Transport category                          | 1L<br>Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 50<br>ml<br>2<br>D/E                                                                                |
| IMDG<br>Limited quantities (LQ)<br>Excepted quantities (EQ)<br>Remarks: | 1L<br>Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 50<br>ml<br>Under certain conditions substances in Class<br>(flammable liquids) can be classified i |
| UN "Model Regulation":                                                  | packinggroup III.<br>See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.<br>UN 1193 ETHYL METHYL KETONE (METHY<br>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

(Contd. on page 10)



Printing date 19.06.2021

Version number 140

Revision: 19.06.2021

(Contd. of page 9)

Trade name: GRF CLEANER PVC TI 1L\*6 L58

#### · 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.

IE-EN