

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

Printing date 16.10.2018

Version number 133

Revision: 24.09.2018

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

1.1 Product identifier

. **Trade name:** GRIFFON CLEANER TIN 500ML*12 L51

. **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(1)/Supplier(2):**

1

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:** +31 88 3235700

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.

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Hazard pictograms



GHS02 GHS07

Signal word Danger

Hazard-determining components of labelling:

methyl ethyl ketone

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, Fire-extinguishing powder, Carbon dioxide.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

==>> Labelling of packages where the contents do not exceed 125 ml

Hazard pictograms



GHS02 GHS07

Signal word Danger

Hazard-determining components of labelling:

methyl ethyl ketone

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.

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SECTION 3: Composition/information on ingredients

3.1 Substances**CAS No. Description**

78-93-3 methyl ethyl ketone

Identification number(s). **EC number:** 201-159-0. **Index number:** 606-002-00-3**Dangerous components:**

CAS: 78-93-3	methyl ethyl ketone	50-100%
EINECS: 201-159-0	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119457290-43		

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.. **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:** Do not induce vomiting; call for medical help immediately.**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:** Mount respiratory protective device.**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:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- . **6.3 Methods and material for containment and cleaning up:**
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 ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- . **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 receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- . **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . **Additional information about design of technical facilities:** No further data; see item 7.
- . **8.1 Control parameters**

- . **Ingredients with limit values that require monitoring at the workplace:**

78-93-3 methyl ethyl ketone

WEL (Great Britain)	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm

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. Ingredients with biological limit values:**78-93-3 methyl ethyl ketone**

BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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. Additional information: The lists valid during the making were used as basis.**. 8.2 Exposure controls****. Personal protective equipment:****. General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
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**. Protection of hands:**

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. Material of gloves

Butyl rubber, BR

Recommended thickness of the material: > 0,7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

. Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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 protection:

Tightly sealed goggles

. Body protection: Solvent resistant protective clothing

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SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

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: -4 °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 of 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: 0.82 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.

. Organics solvents: 100.0 %

. 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.

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- . **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 methyl ethyl ketone		
Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rbt)
- . **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.
- . **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity** 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.

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.
- . **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.

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. **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.

. **Uncleaned packaging:**

. **Recommendation:**

Disposal must be made according to official regulations.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

. **14.1 UN-Number**

. **ADR/ADN, IMDG, IATA** UN1193

. **14.2 UN proper shipping name**

. **ADR/ADN** 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)
. **IMDG, IATA** ETHYL METHYL KETONE (METHYL ETHYL KETONE)

. **14.3 Transport hazard class(es)**

. **ADR/ADN**



. **Class** 3 (F1) Flammable liquids.
. **Label** 3

. **IMDG, IATA**



. **Class** 3 Flammable liquids.
. **Label** 3

. **14.4 Packing group**

. **ADR/ADN, IMDG, IATA** II

. **14.5 Environmental hazards:**

. **Marine pollutant:** No

. **14.6 Special precautions for user**

Warning: Flammable liquids.

. **Danger code (Kemler):** 33

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. EMS Number:	F-E,S-D
. Stowage Category	B
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
. Transport/Additional information:	
. ADR/ADN	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. Transport category	2
. Tunnel restriction code	D/E
. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. Remarks:	Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
. UN "Model Regulation":	UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II

SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Directive 2012/18/EU
- . Named dangerous substances - ANNEX I Substance is not listed.
- . Seveso category P5c FLAMMABLE LIQUIDS
- . Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- . Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- . REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- . 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.

- . Relevant phrases
- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

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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 coördinator

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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.**

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