

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

Printing date 09.05.2017

Version number 18

Revision: 09.05.2017

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

- . **1.1 Product identifier**
- . **Trade name:** GRIFFON WDF-05 BOT 250ML\*12 ENDE
- . **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** Adhesive
- . **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.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- . **2.2 Label elements**
- . **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms**



GHS02 GHS07 GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

tetrahydrofuran  
methyl ethyl ketone

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.  
H335-H336 May cause respiratory irritation. 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.  
P281 Use personal protective equipment as required.  
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 GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

tetrahydrofuran  
methyl ethyl ketone

**Hazard statements**

H351 Suspected of causing cancer.  
H335-H336 May cause respiratory irritation. 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.  
P281 Use personal protective equipment as required.  
P501 Dispose of contents/container in accordance with national regulations.

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- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- . **3.2 Mixtures**
- . **Description:** Adhesive

- . **Dangerous components:**

CAS: 109-99-9 EINECS: 203-726-8 Reg.nr.: 01-2119444314-46	tetrahydrofuran ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	50-100%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methyl ethyl ketone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	25-50%

- . **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 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.  
Open and handle receptacle with care.  
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.  
Keep respiratory protective device available.
- . **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.  
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**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 <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 900 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm

**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.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Respiratory protection:**

Suitable respiratory protective device recommended.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

**Material of gloves**

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.

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- . **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**  
PVC or PE gloves
- . **Eye protection:**



Tightly sealed goggles

- . **Body protection:** Solvent resistant protective clothing

**SECTION 9: Physical and chemical properties**

. **9.1 Information on basic physical and chemical properties**

. **General Information**

. **Appearance:**

- . **Form:** Fluid
- . **Colour:** According to product specification
- . **Odour:** Characteristic
- . **Odour threshold:** Not determined.

. **pH-value:** Not determined.

. **Change in condition**

- . **Melting point/freezing point:** Undetermined.
- . **Initial boiling point and boiling range:** 65 °C

. **Flash point:** -21 °C

. **Flammability (solid, gas):** Not applicable.

. **Ignition temperature:** 230 °C

. **Decomposition temperature:** Not determined.

. **Auto-ignition temperature:** Product is not selfigniting.

. **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

. **Explosion limits:**

- . **Lower:** 1.5 Vol %
- . **Upper:** 12.0 Vol %

. **Vapour pressure at 20 °C:** 200 hPa

. **Density at 20 °C:** 0.95 g/cm<sup>3</sup>

. **Relative density** Not determined.

. **Vapour density** Not determined.

. **Evaporation rate** Not determined.

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. <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
. <b>Partition coefficient: n-octanol/water:</b>	Not determined.
. <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b> <b>Organis solvents:</b>	Not determined. Not determined. 83.1 %
. <b>9.2 Other information</b>	All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.

### SECTION 10: Stability and reactivity

- . **10.1 Reactivity** No further relevant information available.
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** No further relevant information available.
- . **10.6 Hazardous decomposition products:** Danger of forming toxic pyrolysis products.

### SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
  - . **Acute toxicity** Based on available data, the classification criteria are not met.
- |  |      |                  |
|--|------|------------------|
| . <b>LD/LC50 values relevant for classification:</b> |      |                  |
| <b>109-99-9 tetrahydrofuran</b>                      |      |                  |
| Oral   | LD50 | 3000 mg/kg (rat) |
| <b>78-93-3 methyl ethyl ketone</b>                   |      |                  |
| Oral   | LD50 | 3300 mg/kg (rat) |
| Dermal   | LD50 | 5000 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 (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - . **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - . **Carcinogenicity**  
Suspected of causing cancer.
  - . **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - . **STOT-single exposure**  
May cause respiratory irritation. May cause drowsiness or dizziness.
  - . **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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. **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) (Self-assessment): 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.

. **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**

UN1133

. **14.2 UN proper shipping name**. **ADR/ADN**

1133 ADHESIVES, special provision 640D

. **IMDG, IATA**

ADHESIVES

. **14.3 Transport hazard class(es)**. **ADR/ADN**. **Class**

3 (F1) Flammable liquids.

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. 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	
. Danger code (Kemler):	Warning: Flammable liquids.
. EMS Number:	33
. Stowage Category:	F-E,S-D
	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)	5L
. 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)	5L
. 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 1133 ADHESIVES, SPECIAL PROVISION 640D, 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 None of the ingredients is listed.

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- . **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, 20
- . **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.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H351 Suspected of causing cancer.
- . **Department issuing SDS:** Bison QESH
- . **Contact:** Reach coördinator
- . **Abbreviations and acronyms:**
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Carc. 2: Carcinogenicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- . **\* Data compared to the previous version altered.**

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