

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

Printing date 12.10.2018

Version number 24

Revision: 25.06.2018

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

- . **1.1 Product identifier**
- . **Trade name:** GRIFFON GASLEAKDETECTOR AER 400ML*12 L51
- . **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** Metal-working product
- . **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**
Aerosol 3 H229 Pressurised container: May burst if heated.
- . **2.2 Label elements**
- . **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- . **Hazard pictograms** Void
- . **Signal word** Warning
- . **Hazard statements**
H229 Pressurised container: May burst if heated.
- . **Precautionary statements**
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- . **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:** Metal working product

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. Dangerous components:

CAS: 10024-97-2	dinitrogen oxide	 Acute Tox. 1, H330; Press. Gas L, H280	1-2.5%
EINECS: 233-032-0			

. Additional information:

Propellant: N2O

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.
- . 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:** Use fire extinguishing methods suitable to surrounding conditions.

. 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.

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: No special measures required.**. 6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.**. 6.4 Reference to other sections**

No dangerous substances are released.

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** No special precautions are necessary if used correctly.

- . Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

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. 7.2 Conditions for safe storage, including any incompatibilities**. Storage:****. Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

. Information about storage in one common storage facility: Not required.**. Further information about storage conditions:** Keep receptacle tightly sealed.**. 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:****10024-97-2 dinitrogen oxide**WEL (Great Britain) Long-term value: 183 mg/m³, 100 ppm**. 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.

Wash hands before breaks and at the end of work.

. Respiratory protection: Not required.**. Protection of hands:**

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

Recommended thickness of the material: > 0,12 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.

Nitrile rubber, NBR

. 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 mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

. Eye protection: Not required.

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SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form:	Aerosol
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:	100 °C

. Flash point: Not applicable, as aerosol.

. Flammability (solid, gas): Not applicable.

. Ignition temperature: 371 °C

. Decomposition temperature: Not determined.

. Auto-ignition temperature: Product is not selfigniting.

. Explosive properties: Not determined.

. Explosion limits:

Lower:	2.6 Vol %
Upper:	12.6 Vol %

. Vapour pressure at 20 °C: 23 hPa

. Density at 20 °C: 1.04 g/cm³

. Relative density: Not determined.

. Vapour density: Not determined.

. Evaporation rate: Not applicable.

. Solubility in / Miscibility with water:

Not miscible or difficult to mix.

. Partition coefficient: n-octanol/water: Not determined.

. Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.
Water:	98.2 %

. 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:** No dangerous decomposition products known.

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:**

10024-97-2 dinitrogen oxide		
Inhalative	LC50/4 h	1.06 mg/l (rat)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- . **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** 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** Based on available data, the classification criteria are not met.
- . **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:** Not hazardous for water.
- . **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.

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- . **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	UN1950
. 14.2 UN proper shipping name . ADR/ADN . IMDG . IATA	1950 AEROSOLS AEROSOLS AEROSOLS, non-flammable
. 14.3 Transport hazard class(es) . ADR/ADN	
	
. Class . Label	2 5A Gases. 2.2
. IMDG, IATA	
	
. Class . Label	2.2 2.2
. 14.4 Packing group . ADR/ADN, IMDG, IATA	Void
. 14.5 Environmental hazards: . Marine pollutant:	No
. 14.6 Special precautions for user . Danger code (Kemler): . EMS Number: . Stowage Code	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
. Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of

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.	class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
. 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: E0 Not permitted as Excepted Quantity
. Transport category	3
. Tunnel restriction code	E
IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
. 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 1950 AEROSOLS, 2.2

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.
- . **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**
H280 Contains gas under pressure; may explode if heated.
H330 Fatal if inhaled.
- . **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)

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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
Aerosol 3: Aerosols – Category 3
Press. Gas L: Gases under pressure – Liquefied gas
Acute Tox. 1: Acute toxicity – Category 1
* **Data compared to the previous version altered.**

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