Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

1 Identification

· **Product identifier**

· **Trade name:** GRF GASLEAKDETECTOR AE 400ML*12 L313
· **Other means of identification**
· **Application of the substance / the mixture** Metal-working product

· **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

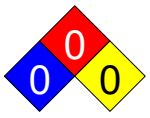
· **Information department:** PSRA
· **Emergency telephone number:**
Bison and Griffon products: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)
UHU products: + 49 (0) 30/19240 (Notruf). Operating hours mo-fr 08:00h-17:00h (CET)

For detailed information contact the national Poison Centre @
https://poisoncentres.echa.europa.eu/appointed-bodies

2 Hazard identification

· **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Precautionary statements**
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.
· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 1

CA

(Contd. on page 2)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 1)

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Metal working product

· **Dangerous components:**		
10024-97-2	dinitrogen oxide	0.1-1% w/w *
102-71-6	Triethanolamine	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· **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.
· **After swallowing:** If symptoms persist consult doctor.
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required
· **Environmental precautions:** No special measures required.
· **Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material.
· **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.

(Contd. on page 3)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 2)

See Section 13 for disposal information.

7 Handling and storage

· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
· **Information about storage in one common storage facility:** Not required
· **Further information about storage conditions:** None.
· **Storage class:** 2 B
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
10024-97-2 dinitrogen oxide	
EL	TWA: 25 ppm R
EV	TWA: 45 mg/m³, 25 ppm
102-71-6 Triethanolamine	
EL	TWA: 5 mg/m³
EV	TWA: 3.1 mg/m³, 0.5 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Additional information about design of technical systems:** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
· **Breathing equipment:** 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
Nitrile rubber, NBR
· **Penetration time of glove material**
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).

(Contd. on page 4)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 3)

· **Eye protection:** Not required

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Aerosol
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined
· **Melting point/Melting range:**	0 °C
· **Boiling point/Boiling range:**	100 °C
· **Flammability:**	Not applicable
· **Explosion limits:**	
· **Lower:**	2.6 Vol %
· **Upper:**	12.6 Vol %
· **Flash point:**	Not applicable, as aerosol
· **Decomposition temperature:**	Not determined
· **pH-value:**	Not determined
· **Viscosity:**	
· **Kinematic:**	Not determined
· **Dynamic at 20 °C:**	0.952 mPas
· **Solubility in / Miscibility with**	
· **Water:**	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined
· **Vapor pressure at 20 °C:**	23 hPa
· **Vapor pressure at 50 °C:**	123 hPa
· **Density at 20 °C:**	1.04 g/cm³
· **Relative density**	Not determined
· **Vapor density**	Not determined
· **Particle characteristics**	Not applicable

· **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.
· **Appearance:**	
· **Form:**	Aerosol
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **Organic solvents:**	0.4 %
· **Water:**	98.6 %
· **Solids content:**	0.0 %

(Contd. on page 5)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 4)

· **Change in condition**
· **Evaporation rate** Not applicable.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
10024-97-2 dinitrogen oxide		
Inhalative	LC50/4 h	1.06 mg/l (rat)
102-71-6 Triethanolamine		
Oral	LD50	8000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Germ cell mutagenicity** Not applicable
· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
102-71-6	Triethanolamine	3

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 5)

· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects**
· **Additional ecological information:**
· **General notes:** Not known to be hazardous to water.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Smaller quantities can be disposed of with household waste.
Disposal must be made according to official regulations.

· **Uncleaned packagings:**
· **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

· **UN-Number**	
· **DOT/TDG, ADR, IMDG, IATA**	UN1950
· **UN proper shipping name**	
· **DOT/TDG**	Aerosols, non-flammable
· **ADR**	1950 Aerosols
· **IMDG**	AEROSOLS
· **IATA**	AEROSOLS, non-flammable
· **Transport hazard class(es)**	
· **DOT/TDG (Transport dangerous goods):**	



· **Class**	2.2 Gases
· **Label**	2.2
· **ADR**	



· **Class**	2 5A Gases

(Contd. on page 7)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 6)

· **Label**	2.2
· **IMDG, IATA**	
	
· **Class**	2.2 Gases
· **Label**	2.2
· **Packing group**	
· **DOT/TDG, ADR, IMDG, IATA**	not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable
· **Transport/Additional information:**	
· **DOT/TDG**	
· **Quantity limitations**	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· **ADR**	
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **Special precautions for user**	Warning: Gases
· **Hazard identification number (Kemler code):**	-
· **EMS Number:**	F-D,S-U
· **Stowage Code**	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 class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

(Contd. on page 8)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 7)

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.2

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
10024-97-2	dinitrogen oxide	ACTIVE
102-71-6	Triethanolamine	ACTIVE
154518-36-2	Alcohols, C9-11-iso-,C10-rich, ethoxylated propoxylated	ACTIVE

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

7732-18-5	water, distilled, conductivity or of similar purity
10024-97-2	dinitrogen oxide
102-71-6	Triethanolamine
154518-36-2	Alcohols, C9-11-iso-,C10-rich, ethoxylated propoxylated

· **Canadian Non-Domestic Substances List (NDSL)**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

10024-97-2	dinitrogen oxide

· **Canadian Ingredient Disclosure list (limit 1%)**
None of the ingredients is listed.

· **Per- and polyfluoroalkyl substances (PFAS)**
None of the ingredients is listed.

· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Precautionary statements**

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.

(Contd. on page 9)

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 07/16/2026 Version number 38 Revision: 07/16/2026

Trade name: GRF GASLEAKDETECTOR AE 400ML*12 L313

(Contd. of page 8)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· **Department issuing SDS:** PSRA
· **Contact:** PSRA
· **Date of previous version** 01/22/2022
· **Version number of previous version:** 37
· **Date of preparation** 07/16/2026
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
· *** Data compared to the previous version altered.**

CA