

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

Printing date 11.02.2023 Version number 177 (replaces version 176) Revision: 11.02.2023

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

- · 1.1 Product identifier
- · Trade name: GRF IMAL AE 100ML*12 NLFR
- 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 Penetrating oil
- · 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:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if





STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 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





GHS02 GHS07

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· Signal word Danger

Hazard-determining components of labelling:

Distillates (petroleum), hydrotreated light

1-methoxy-2-propanol

Aromatic hydrocarbons, C10

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 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: Penetrating oil

Dangerous components:		
CAS: 64742-47-8 EC number: 926-141-6 Index number: 649-422-00-2 Reg.nr.: 01-2119456620-43	Distillates (petroleum), hydrotreated light	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	n-Butan	10-25%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35- xxxx	1-methoxy-2-propanol ❖ Flam. Liq. 3, H226; ❖ STOT SE 3, H336	10-25%

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CAS: 1189173-42-9	Aromatic hydrocarbons, C10	≥10-<25%
EC number: 918-811-1	♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H336, EUH066	
CAS: 74-98-6	propane	2.5-10%
EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 75-28-5	isobutane	1-2.5%
EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	≥0.025-<0.25%
EINECS: 204-414-9	♦ STOT RE 2, H373; ♦ Skin Corr. 1B, H314;	
Reg.nr.: 01-2119777867-13	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	
CAS: 110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	<0.25%
EINECS: 203-749-3 Reg.nr.: 01-2119488991-20	Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H332; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	

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.

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.
- 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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.

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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:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

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 No special precautions are necessary if used correctly.
- · Information about fire and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · 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 container tightly sealed.
- · Storage class: 2 B
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

106-97-8 n-Butan

OEL (Ireland) Short-term value: 1000 ppm

107-98-2 1-methoxy-2-propanol

OEL (Ireland) Short-term value: 568 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

IOELV

IOELV (EU) Short-term value: 568 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

Skin

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74-98-6 propane

OEL (Ireland) Asphx

75-28-5 isobutane

OEL (Ireland) Short-term value: 1000 ppm

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as 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.

Wash hands before breaks and at the end of work.

- · Respiratory protection:
- Use suitable respiratory protective device in case of insufficient ventilation.
- Recommended filter device for short term use: Filter A
- · Hand protection

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).

· Eye/face protection Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Aerosol

· Colour: According to product specification

· Odour: Characteristic
· Odour threshold: Not determined.
· Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range 120.3 °C
• Flammability Not applicable.

· Lower and upper explosion limit

· Lower: 0.5 Vol %
· Upper: ~20 Vol %
· Flash point: -97 °C
· Ignition temperature: 210 °C

• Decomposition temperature: Not determined. • pH Not determined.

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· Oxidising gases

Flammable liquids

Flammable solids

· Pyrophoric liquids

· Pyrophoric solids

· Oxidising liquids

· Oxidising solids

Organic peroxides

· Corrosive to metals

· Gases under pressure

· Self-reactive substances and mixtures

Self-heating substances and mixtures

 Substances and mixtures, which emit flammable gases in contact with water

(Contd. of page 5) · Viscosity: · Kinematic viscosity Not determined. · Dynamic: Not determined. · Solubility · water: Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure at 20 °C: 2100 hPa Density and/or relative density Density at 20 °C: 0.766 g/cm³ Relative density Not determined. · Vapour density Not determined. · 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. · Appearance: · Form: Aerosol · Important information on protection of health and environment, and on safety. · Auto-ignition temperature: Product is not selfigniting. **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Solvent content: · Organic solvents: 42.9 % · Solids content: 0.2 % · Change in condition Not applicable. · Evaporation rate · Information with regard to physical hazard classes · Explosives Void Flammable gases Void · Aerosols Extremely flammable aerosol. Pressurised

Void

container: May burst if heated.

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· Desensitised explosives

Void

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: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:			
106-97-8	106-97-8 n-Butan		
Inhalative	LC50/4 h	658 mg/l (rat)	
107-98-2 ⁻	107-98-2 1-methoxy-2-propanol		
Oral	LD50	5660 mg/kg (rat)	
Dermal	LD50	13000 mg/kg (rabbit)	

- · 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.
- Germ cell mutagenicity

Not applicable.

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 May be fatal if swallowed and enters airways.
- Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- · Sensitisation Not applicable.
- · Repeated dose toxicity Not applicable.
- 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

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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.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

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 or ID number		
· ADR/ADN, IMDG, IATA	UN1950	
· 14.2 UN proper shipping name		
· ADR/ADN	1950 AEROSOLS	
· IMDG	AEROSOLS	
· IATA	AEROSOLS, flammable	

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· 14.3 Transport hazard class(es)

· ADR/ADN



· Class 2 5F Gases.

· Label 2.1

· IMDG, IATA



· Class 2.1 Gases.

· Label 2.1

· 14.4 Packing group

· ADR/ADN, IMDG, IATA not regulated

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Gases.

Hazard identification number (Kemler code): -

· EMS Number: F-D,S-U

· Segregation groups (SGG18) Alkalis

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.

• 14.7 Maritime transport in bulk according to

IMO instruments Not applicable.

· Transport/Additional information:

Quantity limitationsOn passenger aircraft/rail: 75 kg
On cargo aircraft only: 150 kg

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· ADR/ADN

· Limited quantities (LQ)

 Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· Transport category · Tunnel restriction code D

· IMDG

· Limited quantities (LQ)

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 1950 AEROSOLS, 2.1 UN "Model Regulation":

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.
- · Seveso category P3a FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · 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

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is 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.

Relevant phrases

H220 Extremely flammable gas. H226 Flammable liquid and vapour.

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H280	Contains gas under pressure; may explode if heated.	(Contd. of page 10)
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	
H336	May cause drowsiness or dizziness.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

· Classification according to Regulation (EC) No 1272/2008		
Aerosols, Section 2.3.1	Bridging principles	
Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long- term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.	
Aspiration hazard	Expert judgement	

Department issuing SDS: Bison QESH

· Contact: Reach coordinator

Date of previous version: 22.01.2022

· Version number of previous version: 176

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

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. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

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