Safety Data Sheet
according to WHS Regulations

Date of issue: 16.07.2026 Version number 180 Revision: 16.07.2026

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· **Other means of identification**

· **Trade name:** GRF IMAL AE 300ML*12 L221
· **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

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Bison International B.V.
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

FABER - CASTELL
15 GIBBON RD.
WINSTON HILL
NSW 2153
Toll Free: 1800 677 885
Free Fax: 1800 678 608
EMAIL: enquiries@faber-castell.com.au

· **Further information obtainable from:** PSRA
· **Emergency telephone number:**
POISONS INFORMATION CENTRE (PIC)
TEL: 13 11 26

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2 Hazard(s) Identification

· **Classification of the substance or mixture**

Aerosols – Category 1	H222 Extremely flammable aerosol.
	H229 Pressurized container: may burst if heated.
Germ cell mutagenicity – Category 1A	H340 May cause genetic defects.
Carcinogenicity – Category 1A	H350 May cause cancer.
Specific target organ toxicity (single exposure) – Category 3	H336 May cause drowsiness or dizziness.
Aspiration hazard – Category 1	H304 May be fatal if swallowed and enters airways.

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· **Label elements**
· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (30-60 %)
n-Butan (10-<30 %)
1-methoxy-2-propanol (10-<30 %)
isobutane (≥0.1-<10 %)
· **Hazard statements**
H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H340 May cause genetic defects.
H350 May cause cancer.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
· **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/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: 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:**
AUH066 Repeated exposure may cause skin dryness or cracking.
· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable

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3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Penetrating oil

· **Dangerous components:**

	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics Aspiration hazard – Category 1, H304; Flammable liquids – Category 4, H227	30-60%
107-98-2	1-methoxy-2-propanol Flammable liquids – Category 3, H226; Specific target organ toxicity (single exposure) – Category 3, H336	10-<30%

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106-97-8	n-Butan Flammable gases – Category 1A, H220; Gases under pressure – Compressed gas, H280; Germ cell mutagenicity – Category 1A, H340; Carcinogenicity – Category 1A, H350	10-<30%
74-98-6	propane Flammable gases – Category 1A, H220; Gases under pressure – Compressed gas, H280	10-<30%
	Hydrocarbons, C10, aromatics, <1% naphthalene Aspiration hazard – Category 1, H304; Specific target organ toxicity (single exposure) – Category 3, H336; Flammable liquids – Category 4, H227	<10%
75-28-5	isobutane Flammable gases – Category 1A, H220; Gases under pressure – Compressed gas, H280; Germ cell mutagenicity – Category 1A, H340; Carcinogenicity – Category 1A, H350	≥0.1-<10%
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol Acute toxicity - oral – Category 3, H301; Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318	<1%

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

4 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.
· **Information for 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

· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture**
No further relevant information available.
· **Protective equipment:** No special measures required.

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6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **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.

7 Handling and Storage

· **Handling:**
· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
· **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.
· **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
· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Appropriate engineering controls** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**	
107-98-2 1-methoxy-2-propanol	
WES	Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm
106-97-8 n-Butan	
WES	Long-term value: 1900 mg/m³, 800 ppm
74-98-6 propane	
WES	Asphyxiant

· **DNELs**		
107-98-2 1-methoxy-2-propanol		
Oral	Consumer, oral, longterm exposition	3.3 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	50.6 mg/kg bw/day

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	Consumer, dermal, longterm exposition	18.1 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	553.5 mg/m³
	Worker, inhalative, longterm exposition	369 mg/m³
	Consumer, inhalative, longterm exposition	43.9 mg/m³
Hydrocarbons, C10, aromatics, <1% naphthalene		
Oral	Consumer, oral, longterm exposition	7.5 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	12.5 mg/kg bw/day
	Consumer, dermal, longterm exposition	7.5 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	150 mg/m³
	Consumer, inhalative, longterm exposition	32 mg/m³
95-38-5 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol		
Dermal	Worker, dermal, shortterm exposition	2 mg/kg bw/day
	Worker, dermal, longterm exposition	0.06 mg/kg bw/day
Inhalative	Worker, inhalative, shortterm exposition	14 mg/m³
	Worker, inhalative, longterm exposition	0.46 mg/m³

· **PNECs**

107-98-2 1-methoxy-2-propanol	
Fresh water	10 mg/l
Fresh water sediment	52.3 mg/kg dry weight
Marine water	1 mg/l
Marine sediment	5.2 mg/kg dry weight
Soil	4.59 mg/kg
Sewage treatment plant	100 mg/l
Sporadic release	100 mg/l
95-38-5 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	
Fresh water	0.00003 mg/l
Fresh water sediment	0.376 mg/kg dry weight
Marine water	0.000003 mg/l
Marine sediment	0.0376 mg/kg dry weight
Soil	0.075 mg/kg
Sewage treatment plant	0.27 mg/l
Sporadic release	0.0003 mg/l

· **Additional information:** The lists valid during the making were used as basis.
· **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.
Store protective clothing separately.
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
· **Recommended filter device for short term use:** Filter A

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· **Protection of hands:**



Protective 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**
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 protection:**
Safety glasses



Tightly sealed goggles

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9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	Aerosol
· **Colour:**	According to product specification
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined
· **pH-value:**	Mixture is a gas.
· **Change in condition**	
· **Melting point/freezing point:**	Undetermined
· **Initial boiling point and boiling range:**	-44.5 °C
· **Flash point:**	-60 °C
· **Flammability**	Not applicable
· **Auto-ignition temperature:**	210 °C
· **Decomposition temperature:**	Not determined
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Explosion limits:**	
· **Lower:**	0.5 Vol %
· **Upper:**	~20 Vol %
· **Vapour pressure at 20 °C:**	8300 hPa
· **Density at 20 °C:**	~0.634 g/cm³
· **Relative density**	Not determined

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· **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
· **Solvent content:**	
· **Organic solvents:**	80.5 %
· **VOC (EC)**	86.51 %
· **Solids content:**	0.2 %
· **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.
· **Particle characteristics**	Not applicable
· **Physical state**	Aerosol

10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **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.

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11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
107-98-2 1-methoxy-2-propanol		
Oral	LD50	4016 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Hydrocarbons, C10, aromatics, <1% naphthalene		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

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95-38-5 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol		
Oral	LD50	1265 mg/kg (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.
· **Germ cell mutagenicity**
Not applicable
May cause genetic defects.
· **Carcinogenicity** May cause cancer.
· **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.
· **Interactive effects**
· **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable
· **Sensitisation** Not applicable
· **Repeated dose toxicity** Not applicable

12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **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.

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

14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	UN1950
· **UN proper shipping name**	
· **ADG**	1950 AEROSOLS
· **IMDG**	AEROSOLS
· **IATA**	AEROSOLS, flammable
· **Transport hazard class(es)**	
· **ADG**	
· **Class**	2 5F Gases.
· **Label**	2.1
· **IMDG, IATA**	
· **Class**	2.1 Gases.
· **Label**	2.1
· **Packing group**	
· **ADG, IMDG, IATA**	not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **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"

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·	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.
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable
· **Transport/Additional information:**	
· **Quantity limitations**	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· **ADG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **Transport category**	2
· **Tunnel restriction code**	D
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **UN "Model Regulation":**	UN 1950 AEROSOLS, 2.1

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15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**	
107-98-2	1-methoxy-2-propanol
106-97-8	n-Butan
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic
74-98-6	propane
75-28-5	isobutane
95-63-6	1,2,4-trimethylbenzene
110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine
91-20-3	naphthalene
7782-42-5	Graphite
1589-47-5	2-methoxypropanol

· **Standard for the Uniform Scheduling of Medicines and Poisons**		
91-20-3	naphthalene	S6, S10

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· **Australia: Priority Existing Chemicals**
None of the ingredients is listed.

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (30-60 %)
n-Butan (10-<30 %)
1-methoxy-2-propanol (10-<30 %)
isobutane (≥0.1-<10 %)

· **Hazard statements**
H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H340 May cause genetic defects.
H350 May cause cancer.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.

· **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/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: 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.

· **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

· **National regulations:**

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.
H227 Combustible liquid.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.

· **Department issuing SDS:** PSRA
· **Contact:** PSRA
· **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
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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flammable gases – Category 1A: Flammable gases – Category 1A
Aerosols – Category 1: Aerosols – Category 1
: Aerosols – Category 3
Gases under pressure – Compressed gas: Gases under pressure – Compressed gas
Flammable liquids – Category 3: Flammable liquids – Category 3
Flammable liquids – Category 4: Flammable liquids – Category 4
Acute toxicity - oral – Category 3: Acute toxicity – Category 3
Skin corrosion/irritation – Category 1B: Skin corrosion/irritation – Category 1B
Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1
Germ cell mutagenicity – Category 1A: Germ cell mutagenicity – Category 1A
Carcinogenicity – Category 1A: Carcinogenicity – Category 1A
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Aspiration hazard – Category 1: Aspiration hazard – Category 1
· *** Data compared to the previous version altered.**

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