

Printing date 17.06.2021

Version number 25

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

1.1 Product identifier

• Trade name: GRF SILICON SPRAY AE 300ML*12 L221

- **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 Lubricant

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: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)

GHS02 f	lame	
Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burn heated.
GHS09 6	environment	
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
GHS07		
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
		May be fatal if swallowed and enters airways.



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• Hazard pictograms



- Signal word Danger
- · Hazard-determining components of labelling:
- Naphtha (petroleum), hydrotreated heavy
- pentane

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Naphtha (petroleum), hydrotreated light

· Hazard statements

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic 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.
- P261 Avoid breathing spray.
- 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.
- · 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: Lubricant

	 Dangerous components: 		
	CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	n-Butan	25-50%
	CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane	10-25%
	CAS: 64742-48-9 EC number: 927-241-2 Index number: 649-328-00-1 Reg.nr.: 01-2119471843-32	Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3, H226; SAsp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	10-25%
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CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1	pentane Flam. Liq. 2, H225; S Asp. Tox. 1, H304; S Aquatic Chronic 2, H411; () STOT SE 3, H336	2.5-10%
CAS: 64742-49-0 EC number: 931-254-9 Index number: 649-328-00-1 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2, H225; S Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 64742-49-0 EC number: 926-605-8 Index number: 649-328-00-1 Reg.nr.: 01-2119486291-36	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-10%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Flam. Liq. 2, H225; SRepr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	<1%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1 Reg.nr.: 01-2119463273-41	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	<1%
• 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:
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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.

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• 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: 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 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.

- · 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

· Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

106-97-8 n-Butan

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

109-66-0 pentane

WEL Long-term value: 1800 mg/m³, 600 ppm

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110-54-3 n-hexane

WEL Long-term value: 72 mg/m³, 20 ppm

110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 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.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the skin.

Avoid contact with the eyes and skin.

- Respiratory protection:
- Use suitable respiratory protective device in case of insufficient ventilation.
- Recommended filter device for short term use: Filter AX
- 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: Not required.

· Body protection: Use protective suit.

9.1 Information on basic phy General Information	sical and chemical properties	
Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	



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· pH-value:	Not determined.
 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. : 36.1 °C
· Flash point:	-97 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	240 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation o explosive air/vapour mixtures are possible.
 Explosion limits: Lower: Upper: 	0.6 Vol % 10.9 Vol %
· Vapour pressure at 20 °C:	8300 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate 	0.635 g/cm ³ Not determined. Not determined. Not applicable.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
 Solvent content: Organic solvents: 	74.4 %
Solids content:	0.0 %
• 9.2 Other information	All relevant physical data were determined for the mixture. All non-determined data are not measurable o 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.
- \cdot 10.5 Incompatible materials: No further relevant information available.

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(Contd. of page 6) • **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.

Acute toxicity based on available data, the classification chiefla are not met.		
· LD/LC50 value	es relevant for classification:	
106-97-8 n-Bu	tan	
Inhalative LC5	50/4 h 658 mg/l (rat)	
64742-48-9 Na	phtha (petroleum), hydrotreated heavy	
Oral LD5	i0 >5000 mg/kg (rat)	
Dermal LD5	50 >3000 mg/kg (rab)	
110-82-7 cyclo	bhexane	
Oral LD5	50 12705 mg/kg (rat)	
Additional tox Additional tox Acute effects Sensitisation I Repeated dos CMR effects (Germ cell mut	n/irritation itation. amage/irritation Based on available data, the classification criteria are not met. r skin sensitisation Based on available data, the classification criteria are not met. cicological information: (acute toxicity, irritation and corrosivity) Not applicable.	

- 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.

SECTION 12: Ecological information

- · 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.
- Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water 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.

^{· 12.1} Toxicity



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Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

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

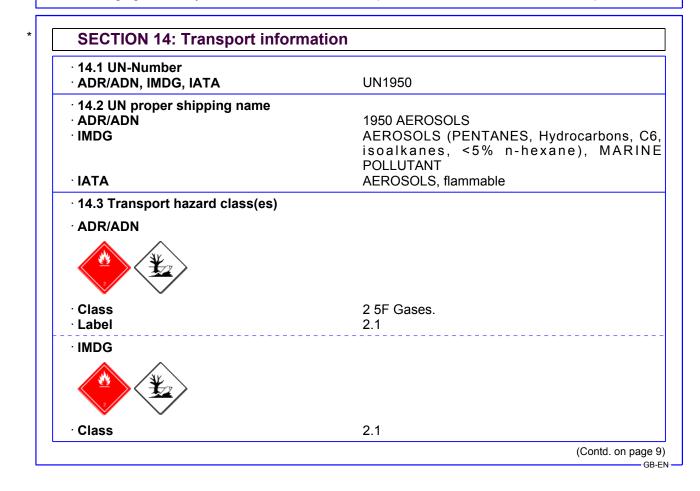
· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.





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·Label	2.1
· Class · Label	2.1 2.1
· 14.4 Packing group · ADR/ADN, IMDG, IATA	not regulated
· 14.5 Environmental hazards:	Product contains environmentally hazardo substances: Naphtha (petroleum), hydrotreat light
· Marine pollutant:	No Symbol (fish and tree)
· Special marking (ADR/ADN):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code	
· EMS Number: · Stowage Code	F-D,S-U SW1 Protected from sources of heat.
olowaye ooue	SW1 Frotected from sources of heat. SW22 For AEROSOLS with a maximum capac
	of 1 litre: Category A. For AEROSOLS with
	capacity above 1 litre: Category B. For WAS
	AEROSOLS: Category C, Clear of living quarter
· Segregation Code	SG69 For AEROSOLS with a maximum capac
	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
	class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision class 2.
· 14.7 Transport in bulk according to Annex	
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
· Limited quantities (LQ)	1L Cada: E0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
[·] Tunnel restriction code	D



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 IMDG

 Limited quantities (LQ)
 Excepted quantities (EQ)
 Remarks:
 IL
 Code: E0 Not permitted as Excepted Quantity
 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, 2.1, ENVIRONMENTALLY HAZARDOUS

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

E2 Hazardous to the Aquatic Environment

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, 57

 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.

· 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.

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

- H361f Suspected of damaging fertility.
- 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.

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	No 1272/2008
Aerosols	Bridging principles
Skin corrosion/irritation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long- term (chronic) aquatic hazard	The classification of the mixture is general based on the calculation method usir substance data according to Regulation (EC) N 1272/2008.
Aspiration hazard	Expert judgement
Department issuing SDS: Bison QESH Contact: Reach coordinator Abbreviations and acronyms: ADR: Accord relatif au transport international des marchan the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and La EINECS: European Inventory of Existing Commercial Chem ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American LC50: Lethal concentration, 50 percent D50: 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 Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Repr. 2: Reproductive toxicity – Category 2	iical Substances Chemical Society)