

Printing date 12.02.2023

Version number 23 (replaces version 22)

Revision: 12.02.2023

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

1.1 Product identifier

- · Trade name: GRF RES-2 T/S 97/3 2.0MM RL 500G*6 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 Brazing alloy

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

The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:
- EUH210 Safety data sheet available on request.
- · 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: Brazing alloy

· Dangerous components:		
	tin	50-100%
	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119486474-28		
CAS: 7440-22-4	silver	2.5-10%
	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119555669-21		td on nago 2)

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• 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: Use fire extinguishing methods suitable to surrounding conditions.
- $^{\cdot}$ 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 Not required.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 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: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Storage class: 11

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• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

·	8.1	Contro	parameters
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· Ingredients with limit values that require monitoring at the workplace:

7440-31-5 tin

OEL (Ireland) Short-term value: 0.2** mg/m³

Long-term value: 2* 0.1** mg/m³ IOELV,*metal, oxide, inorg.compds.,**org. compds.

7440-22-4 silver

OEL (Ireland) Long-term value: 0.1 mg/m³ IOELV

IOELV (EU) Long-term value: 0.1 mg/m³

• 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.

- Wash hands before breaks and at the end of work.
- \cdot Respiratory protection: Not required.

· 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.

9.1 Information on basic physical and General Information	d chemical properties	
Physical state	Solid	
Colour:	Dark grey	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	232 °C	
Boiling point or initial boiling point a	nd	
boiling range	2362 °C	



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Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	Not applicable.
water:	Insoluble.
	Insoluble.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	3.71 g/cm³
Relative density	Not determined.
Bulk density:	4000 kg/m³
Vapour density	Not applicable.
Particle characteristics	See item 3.
9.2 Other information	All relevant physical data were determined for th
	mixture. All non-determined data are no
	measurable or not relevant for th
	characterization of the mixture.
Appearance:	
Form:	Solid
Important information on protection of heal	
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	r roudot does not present un explosion nazara.
Solids content:	100.0 %
Molecular weight	118.69 g/mol
Change in condition	Not appliable
Evaporation rate	Not applicable.
Information with regard to physical haza	rd
classes	
	Void
Flammable gases	Void
Flammable gases Aerosols	Void Void
Flammable gases Aerosols Oxidising gases	Void Void Void
Flammable gases Aerosols Oxidising gases	Void Void
Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure	Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void Void Void

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Self-heating substances and mixtures	Void	
 Substances and mixtures, which emit flammable gases in contact with water 	Void	
• Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
 Corrosive to metals 	Void	
 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.
- \cdot 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.
- 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** 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.
- · Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- · Sensitisation Not applicable.
- · Repeated dose toxicity Not applicable.
- \cdot 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
- · Additional ecological information:
- · General notes: Not hazardous for water.

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.

SECTION 14: Transport informat	.1011	
· 14.1 UN number or ID number · ADR/ADN, IMDG, IATA	not regulated	
,,,,	-	
· ADN	not regulated	
 14.2 UN proper shipping name ADR/ADN, ADN, IMDG, IATA 	not regulated	
· 14.3 Transport hazard class(es)		
· ADR/ADN, ADN, IMDG, IATA		
· Class	not regulated	
· 14.4 Packing group		
· ADR/ADN, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:		
· Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
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 14.7 Maritime transport in bulk accordi IMO instruments 	ng to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
·IMDG	
· 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":	not regulated

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.
- 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.

- · Department issuing SDS: Bison QESH
- · Contact: Reach coordinator
- · Date of previous version: 23.01.2022
- · Version number of previous version: 22
- 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)

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative · * Data compared to the previous version altered.