

Version number 42 (replaces version 41) Printing date 25.07.2024

Revision: 25.07.2024

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

### · 1.1 Product identifier

· Trade name: GRF S-39 BO 80ML\*16 ESPT

- 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 Soldering flux

#### · 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: PSRA

· 1.4 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

# **SECTION 2: Hazards identification**

	of the substance or mixture cording to Regulation (EC) No 1272/2008	
GHS05 d	corrosion	
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.	
	H318 Causes serious eye damage.	
GHS09 e	environment	
Aquatic Acute 1	H400 Very toxic to aquatic life.	
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.	
GHS07		
Acute Tox. 4	H302 Harmful if swallowed.	
STOT SE 3	H335 May cause respiratory irritation.	
	ts ing to Regulation (EC) No 1272/2008 ssified and labelled according to the CLP regulation.	(Contd. on page 2



Revision: 25.07.2024 Version number 42 (replaces version 41) Printing date 25.07.2024 Trade name: GRF S-39 BO 80ML\*16 ESPT (Contd. of page 1) · Hazard pictograms GHS07 GHS05 GHS09 · Signal word Danger · Hazard-determining components of labelling: zinc chloride ammonium chloride Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very 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. P260 Do not breathe vapours. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with national regulations. · Labelling of packages where the contents do not exceed 125 ml Hazard pictograms GHS05 GHS07 GHS09 · Signal word Danger · Hazard-determining components of labelling: zinc chloride ammonium chloride Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. **Precautionary statements** If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. Do not breathe vapours. P260 Wear protective gloves/protective clothing/eye protection/face protection. P280

- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P501 Dispose of contents/container in accordance with national regulations.

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· 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:** Soldering flux

· Dangerous components:					
CAS: 7646-85-7	zinc chloride	25-50%			
EINECS: 231-592-0	♦ Skin Corr. 1B, H314; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Acute Tox. 4, H302; STOT SE 3,				
Index number: 030-003-00-2	Chronic 1, H410; 🕦 Acute Tox. 4, H302; STOT SE 3,				
Reg.nr.: 01-2119472431-44	H335				
	Specific concentration limit: STOT SE 3; H335: C $\geq$ 5 %				
CAS: 12125-02-9	ammonium chloride	10-25%			
EINECS: 235-186-4	Acute Tox. 4, H302; Eye Irrit. 2, H319				
Index number: 017-014-00-8					
Reg.nr.: 01-2119487950-27					
Additional information: For	the wording of the listed bazard phrases refer to section 16				

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:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:
- Call a doctor immediately.
- 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. Then consult a doctor.

## · After swallowing:

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 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. (Contd. on page 4)

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• 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

· 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device. 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: Send for recovery or disposal in suitable receptacles. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to section 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.

Prevent formation of aerosols.

· Information about fire - and explosion protection: Keep respiratory protective device available.

#### · 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: Keep container tightly sealed.

· Storage class: 8 A

 $\cdot$  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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists valid during the making were used as basis.

### · 8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

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(Contd. of page 4) · 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. 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 eyes. Avoid contact with the eyes and skin. **Respiratory protection:** Suitable respiratory protective device recommended. Use suitable respiratory protective device in case of insufficient ventilation. Recommended filter device for short term use: Filter A Hand protection 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/face protection Tightly sealed goggles Goggles recommended during refilling **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · 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 100 °C Flammability Not applicable.

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is not selfigniting.
does not present an explosion hazard.
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• 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	
<ul> <li>Desensitised explosives</li> </ul>	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 Corrosive action on metals.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Danger of forming toxic pyrolysis products.

### **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- · LD/LC50 values relevant for classification:
- 7646-85-7 zinc chloride
- Oral LD50 350 mg/kg (rat)

#### 12125-02-9 ammonium chloride

- Oral LD50 1650 mg/kg (rat)
- Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes serious eye damage.
- · 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 respiratory irritation.
- 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.

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#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

### **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: Very toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Also poisonous for fish and plankton in water bodies.

Very toxic for 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.

### · European waste catalogue

06 03 13<sup>\*</sup> solid salts and solutions containing heavy metals

- · Uncleaned packaging:
- Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/ADN, IMDG, IATA

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<ul> <li>14.2 UN proper shipping name</li> <li>ADR/ADN</li> <li>IMDG</li> <li>IATA</li> </ul>	2586 ALKYLSULPHONIC ACIDS, LIQUID ALKYLSULPHONIC ACIDS, LIQUID, MARIN POLLUTANT ALKYLSULPHONIC ACIDS, LIQUID
· 14.3 Transport hazard class(es)	
ADR/ADN	
· Class · Label	8 (C3) Corrosive substances. 8
IMDG	
· Class · Label	8 Corrosive substances. 8
IATA	8 Corrosive substances.
	8
· 14.4 Packing group · ADR/ADN, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardo substances: zinc chloride
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR/ADN):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> </ul>	F-A,S-B
<ul> <li>Segregation groups</li> <li>Stowage Category</li> <li>Segregation Code</li> </ul>	(SGG1) Acids B SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.



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<ul> <li>Transport/Additional information:</li> <li>Quantity limitations</li> </ul>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· ADR/ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
/	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
Transport category	3
Tunnel restriction code	E
·IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
· · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 100 ml
UN "Model Regulation":	UN 2586 ALKYLSULPHONIC ACIDS, LIQUID, 8 III, 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 E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65
- 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

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### • 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.

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• 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** H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. Acute toxicity - oral The classification of the mixture is generally Skin corrosion/irritation based on the calculation method using Serious eye damage/irritation substance data according to Regulation (EC) No Specific target organ toxicity (single exposure) 1272/2008. Hazardous to the aquatic environment - shortterm (acute) aquatic hazard Hazardous to the aquatic environment - longterm (chronic) aquatic hazard Department issuing SDS: PSRA · Contact: PSRA · Date of previous version: 23.11.2023 · Version number of previous version: 41 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 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 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 FII