

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.02.2018

Version number 19

Revision: 03.02.2018

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

- . **1.1 Product identifier**
- . **Trade name:** GRIFFON S-39 GEL UNIVERSAL BOT 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(1)/Supplier(2):**  
1  
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

### SECTION 2: Hazards identification

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



GHS05 corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



GHS09 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.

- . **2.2 Label elements**
- . **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms**

GHS05 GHS07 GHS09

**Signal word** Danger**Hazard-determining components of labelling:**zinc chloride  
ammonium chloride  
sodiumlaurylsulphate**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.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
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  
sodiumlaurylsulphate**Hazard statements**H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.**Precautionary statements**P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P271 Use only outdoors or in a well-ventilated area.

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- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- 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:** Soldering flux

. **Dangerous components:**

CAS: 7646-85-7 EINECS: 231-592-0 Reg.nr.: 01-2119472431-44	zinc chloride ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	25-50%
CAS: 12125-02-9 EINECS: 235-186-4 Reg.nr.: 01-2119487950-27	ammonium chloride ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	10-25%
CAS: 68891-38-3 Reg.nr.: 01-2119488639-16	sodiumlaurylsulphate ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412	10-25%
CAS: 112-53-8 EINECS: 203-982-0 Reg.nr.: 01-2119485976-15	dodecan-1-ol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319	2.5-10%

- . **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:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stable in side position for transportation.  
Call a doctor immediately.
- . **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.

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- . **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- . **After swallowing:**  
Do not induce vomiting; call for medical help immediately.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
Rinse out mouth and then drink plenty of water.
- . **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.
- . **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**  
Wear protective equipment. Keep unprotected persons away.
- . **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- . **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
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:** 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:** Keep receptacle tightly sealed.

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

### SECTION 8: Exposure controls/personal protection

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

#### . 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

. **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.

Avoid contact with the eyes and skin.

. **Respiratory protection:** Suitable respiratory protective device recommended.

. **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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

. **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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).

. **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

. **Eye protection:**



Tightly sealed goggles

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### SECTION 9: Physical and chemical properties

#### . 9.1 Information on basic physical and chemical properties

##### . General Information

##### . Appearance:

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

. pH-value at 20 °C:	0
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##### . Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C

. Flash point:	Not applicable.
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. Flammability (solid, gas):	Not applicable.
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. Ignition temperature:	275 °C
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. Decomposition temperature:	Not determined.
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. Auto-ignition temperature:	Product is not selfigniting.
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. Explosive properties:	Product does not present an explosion hazard.
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##### . Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

. Vapour pressure at 20 °C:	23 hPa
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. Density at 20 °C:	1.32 g/cm <sup>3</sup>
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. Relative density	Not determined.
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. Vapour density	Not determined.
------------------	-----------------

. Evaporation rate	Not determined.
--------------------	-----------------

##### . Solubility in / Miscibility with water:

Fully miscible.

. Partition coefficient: n-octanol/water:	Not determined.
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##### . Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.
Water:	38.3 %

##### . 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.

### SECTION 10: Stability and reactivity

. 10.1 Reactivity	No further relevant information available.
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- . **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 toxicological effects**

- . **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 | 1,650 mg/kg (rat)

**112-53-8 dodecan-1-ol**

Oral | LD50 | &gt;2,000 mg/kg (rat)

- . **Primary irritant effect:**
- . **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.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity** 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.

### 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.
- . **Ecotoxicological effects:**
- . **Remark:** Very toxic for fish

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**. Additional ecological information:**

**. General notes:**

Water danger 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.

Also poisonous for fish and plankton in water bodies.

Very 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.

**. Uncleaned packaging:**

**. Recommendation:**

Disposal must be made according to official regulations.

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

**. Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

**. 14.1 UN-Number**

**. ADR/ADN, IMDG, IATA**

UN3264

**. 14.2 UN proper shipping name**

**. ADR/ADN**

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE, HYDROCHLORIC ACID), ENVIRONMENTALLY HAZARDOUS

**. IMDG**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE, HYDROCHLORIC ACID), MARINE POLLUTANT

**. IATA**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE, HYDROCHLORIC ACID)

**. 14.3 Transport hazard class(es)**

**. ADR/ADN**



**. Class**

8 (C1) Corrosive substances.

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. Label	8
<hr/>	
. IMDG	
	
. Class	8 Corrosive substances.
. Label	8
<hr/>	
. IATA	
	
. Class	8 Corrosive substances.
. Label	8
<hr/>	
. 14.4 Packing group	
. ADR/ADN, IMDG, IATA	III
<hr/>	
. 14.5 Environmental hazards:	Product contains environmentally hazardous substances: zinc chloride
. Marine pollutant:	Yes
. Special marking (ADR/ADN):	Symbol (fish and tree)
<hr/>	
. 14.6 Special precautions for user	Warning: Corrosive substances.
. Danger code (Kemler):	80
. EMS Number:	F-A,S-B
. Segregation groups	Acids
. Stowage Category	A
. Stowage Code	SW2 Clear of living quarters.
<hr/>	
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
<hr/>	
. Transport/Additional information:	
<hr/>	
. 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: 1000 ml
. Transport category	3
. Tunnel restriction code	E
<hr/>	
. IMDG	
. Limited quantities (LQ)	5L

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<b>. Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>. Remarks:</b>	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
<b>. UN "Model Regulation":</b>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE, HYDROCHLORIC ACID), 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
- . 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.
  - H315 Causes skin irritation.
  - H318 Causes serious 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.
  - H411 Toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.
- . Department issuing SDS:** Bison QESH
- . Contact:** Reach coördinator
- . Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport 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

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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  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
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  
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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