

Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

1 Identification

- . **Product identifier**
- . **Trade name:** GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222
- . **Application of the substance / the mixture** Brazing alloy
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
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
- . **Information department:** Bison QESH
- . **Emergency telephone number:** +31 88 3235700

2 Hazard(s) identification

- . **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

- . **Label elements**

- . **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- . **Hazard pictograms**



GHS08

- . **Signal word** Warning

- . **Hazard-determining components of labeling:**

lead

- . **Hazard statements**

H351 Suspected of causing cancer.

- . **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

(Contd. on page 2)

US-US

Safety Data Sheet

acc. to OSHA HCS

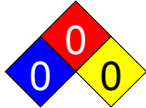
Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 1)

- . **Classification system:**
- . **NFPA ratings (scale 0-4)**



Health = 0
Fire = 0
Reactivity = 0

- . **Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

3 Composition/information on ingredients

- . **Chemical characterization: Mixtures**
- . **Description:** Brazing alloy

- . **Dangerous components:**

7440-31-5	tin	50-100%
7439-92-1	lead	25-50%

- . **Additional information:**

Contains rosin derivate. Oxidised rosin can cause allergic reactions. Avoid inhalation of fumes.
For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- . **Description of first aid measures**
- . **General information:** No special measures required.
- . **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- . **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

- . **Extinguishing media**
- . **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- . **Special hazards arising from the substance or mixture**
No further relevant information available.
- . **Advice for firefighters**
- . **Protective equipment:** No special measures required.

US-US

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 2)

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures** Not required.
- . **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 item 13.
- . **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.
- . **Protective Action Criteria for Chemicals**

. **PAC-1:**

7440-31-5	tin	6 mg/m3
7439-92-1	lead	0.15 mg/m3

. **PAC-2:**

7440-31-5	tin	67 mg/m3
7439-92-1	lead	120 mg/m3

. **PAC-3:**

7440-31-5	tin	400 mg/m3
7439-92-1	lead	700 mg/m3

7 Handling and storage

- . **Handling:**
- . **Precautions for safe handling** Open and handle receptacle with care.
- . **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- . **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.
- . **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**

. **Components with limit values that require monitoring at the workplace:**

7440-31-5 tin	
PEL	Long-term value: 2 mg/m ³ metal

(Contd. on page 4)

US-US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 3)

REL	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³ metal

7439-92-1 lead

PEL	Long-term value: 0.05* mg/m ³ *see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m ³ *8-hr TWA ;See PocketGuide App.C
TLV	Long-term value: 0.05* mg/m ³ *and inorganic compounds, as Pb; BEI

. Ingredients with biological limit values:

7439-92-1 lead

BEI	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)

. Additional information: The lists that were valid during the creation were used as basis.

. Exposure controls

. Personal protective equipment:

. General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

. Breathing equipment: Not required.

. Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. Material of gloves

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.

(Contd. on page 5)

US-US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 4)

- . **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.
- . **Eye protection:** Not required.

9 Physical and chemical properties

. **Information on basic physical and chemical properties**

. **General Information**

. **Appearance:**

- | | |
|--------------------------|------------------------------------|
| . Form: | Solid |
| . Color: | According to product specification |
| . Odor: | Characteristic |
| . Odor threshold: | Not determined. |

. **pH-value:** Not applicable.

. **Change in condition**

- | | |
|---------------------------------------|------------------|
| . Melting point/Melting range: | Undetermined. |
| . Boiling point/Boiling range: | 1.740 °C (35 °F) |

. **Flash point:** Not applicable.

. **Flammability (solid, gaseous):** Not determined.

. **Ignition temperature:**

. **Decomposition temperature:** Not determined.

. **Auto igniting:** Product is not selfigniting.

. **Danger of explosion:** Product does not present an explosion hazard.

. **Explosion limits:**

- | | |
|-----------------|-----------------|
| . Lower: | Not determined. |
| . Upper: | Not determined. |

. **Vapor pressure:** Not applicable.

. **Density at 20 °C (68 °F):** 6.501 g/cm³ (54.251 lbs/gal)

. **Relative density** Not determined.

. **Vapor density** Not applicable.

. **Evaporation rate** Not applicable.

. **Solubility in / Miscibility with**

. **Water:** Insoluble.

. **Partition coefficient (n-octanol/water):** Not determined.

. **Viscosity:**

- | | |
|----------------------------|-----------------|
| . Dynamic: | Not applicable. |
| . Kinematic: | Not applicable. |
| . Organic solvents: | 0.0 % |
| . Solids content: | 100.0 % |

(Contd. on page 6)

-US-US-

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 5)

. Other information

All relevant physical data were determined for the mixture. All non determined data are not measurably or not relevant for the characterization of the mixture.

10 Stability and reactivity

- . **Reactivity** No further relevant information available.
- . **Chemical stability**
- . **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.

11 Toxicological information

. Information on toxicological effects

- . **Acute toxicity:**
- . **Primary irritant effect:**
 - . **on the skin:** No irritant effect.
 - . **on the eye:** No irritating effect.
- . **Sensitization:** No sensitizing effects known.
- . **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

. Carcinogenic categories**. IARC (International Agency for Research on Cancer)**

7439-92-1	lead	2B
-----------	------	----

. NTP (National Toxicology Program)

7439-92-1	lead	R
-----------	------	---

. OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- . **Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **Persistence and degradability** No further relevant information available.
- . **Behavior in environmental systems:**
- . **Bioaccumulative potential** No further relevant information available.
- . **Mobility in soil** No further relevant information available.

(Contd. on page 7)

US-US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 6)

. Additional ecological information:

. General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

. Results of PBT and vPvB assessment

. PBT: Not applicable.

. vPvB: Not applicable.

. Other adverse effects No further relevant information available.

13 Disposal considerations

. Waste treatment methods

. Recommendation:

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

. Uncleaned packagings:

. Recommendation:

Disposal must be made according to official regulations.

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

14 Transport information

. UN-Number

. DOT, ADN, IMDG, IATA Void

. UN proper shipping name

. DOT, ADR/ADN, ADN, IMDG, IATA Void

. Transport hazard class(es)

. DOT, ADR/ADN, ADN, IMDG, IATA

. Class Void

. Packing group

. DOT, IMDG, IATA Void

. Environmental hazards:

. Marine pollutant: No

. Special precautions for user

Not applicable.

. Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

. Transport/Additional information:

. 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

(Contd. on page 8)

US-US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 7)

UN "Model Regulation": Void

15 Regulatory information

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

SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

SARA Section 313 (specific toxic chemical listings)

7439-92-1 | lead

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Prop 65 - Chemicals known to cause cancer

7439-92-1 | lead

Carcinogeny categories

EPA (Environmental Protection Agency)

7439-92-1 | lead

B2

TLV (Threshold Limit Value established by ACGIH)

7439-92-1 | lead

A3

MAK (German Maximum Workplace Concentration)

7440-31-5 | tin

4

7439-92-1 | lead

2

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS08

Signal word Warning

Hazard-determining components of labeling:

lead

Hazard statements

H351 Suspected of causing cancer.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

(Contd. on page 9)

US-US



Safety Data Sheet acc. to OSHA HCS

Printing date 05/07/2017

Reviewed on 03/15/2017

Trade name: GRIFFON PRINT 60/40 ROSIN CORE 0,7MM CRT 4M*24 L222

(Contd. of page 8)

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

. **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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 coördinator

. **Date of preparation / last revision** 05/07/2017 / 75

. **Abbreviations and acronyms:**

Carc. 2: Carcinogenicity – Category 2

US-US