Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2016 Version number 16 Revision: 25.01.2016

* **1 Identification of the substance/mixture and of the company/undertaking**

. **1.1 Product identifier**

. **Trade name:** BISON MIRROR ADHESIVE CRT 425G*12 L143

. **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** Adhesive

. **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

* **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:**
Contains bis-(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate, 2-octyl-2H-isothiazol-3-one, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
Safety data sheet available on request.

. **2.3 Other hazards**

. **Results of PBT and vPvB assessment**

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

* **3 Composition/information on ingredients**

. **3.2 Mixtures**

. **Description:** Adhesive

. **Dangerous components:**

CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52	trimethoxyvinylsilane Flam. Liq. 2, H225; Acute Tox. 4, H332	2,5-10%
CAS: 68512-30-1 Reg.nr.: 01-2119555274-38	Fenol, methyl-gestyreneerd Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2,5-10%

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Trade name: BISON MIRROR ADHESIVE CRT 425G*12 L143

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. **Additional information:**
For the wording of the listed hazard phrases refer to section 16.

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.
. **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.

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.

6 Accidental release measures

. **6.1 Personal precautions, protective equipment and emergency procedures**
Not required.
. **6.2 Environmental precautions:**
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).
. **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.

7 Handling and storage

. **7.1 Precautions for safe handling** No special measures required.
. **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.
. **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

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Safety data sheet

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. **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.
. **Respiratory protection:** Not required.
. **Protection of hands:**
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.
. **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
. **Eye protection:** Goggles recommended during refilling

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:**	Not determined.
. **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	270 °C
. **Flash point:**	> 100 °C
. **Flammability (solid, gaseous):**	Not applicable.
. **Ignition temperature:**	
Decomposition temperature:	Not determined.
. **Self-igniting:**	Product is not selfigniting.
. **Danger of explosion:**	Product does not present an explosion hazard.
. **Explosion limits:**	
Lower:	Not determined.

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Upper:	Not determined.
. **Vapour pressure:**	Not determined.
. **Density at 20 °C:**	1.497 g/cm³
. **Relative density**	Not determined.
. **Vapour density**	Not determined.
. **Evaporation rate**	Not determined.
. **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
. **Partition coefficient (n-octanol/ water):**	Not determined.
. **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solids content:	91.8 %
. **9.2 Other information**	No further relevant information available.

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.
. **10.5 Incompatible materials:** No further relevant information available.
. **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

*

11 Toxicological information

. **11.1 Information on toxicological effects**
. **Acute toxicity** Based on available data, the classification criteria are not met.
. **Primary irritant effect:**
. **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.
. **CMR effects (carcinogenity, 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**
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.

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Trade name: BISON MIRROR ADHESIVE CRT 425G*12 L143

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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.
. **Additional ecological information:**
. **General notes:**
Water hazard class 1 (German Regulation) (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.
. **12.5 Results of PBT and vPvB assessment**
. **PBT:** Not applicable.
. **vPvB:** Not applicable.
. **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

. **13.1 Waste treatment methods**
. **Recommendation** Smaller quantities can be disposed of with household waste.

. **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.

14 Transport information

. **14.1 UN-Number**	
. **ADR,ADN, ADN, IMDG, IATA**	Void
. **14.2 UN proper shipping name**	
. **ADR,ADN, ADN, IMDG, IATA**	Void
. **14.3 Transport hazard class(es)**	
. **ADR,ADN, ADN, IMDG, IATA**	
. **Class**	Void
. **14.4 Packing group**	
. **ADR,ADN, IMDG, IATA**	Void
. **14.5 Environmental hazards:**	
. **Marine pollutant:**	No
. **14.6 Special precautions for user**	Not applicable.
. **14.7 Transport in bulk according to Annex II of Marpol 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
. **UN "Model Regulation":**	Void

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* **15 Regulatory information**

. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
. **Labelling according to Regulation (EC) No 1272/2008** Void
. **Hazard pictograms** Void
. **Signal word** Void
. **Hazard statements** Void

. **Directive 2012/18/EU**
. **Named dangerous substances - ANNEX I** None of the ingredients is listed.
. **15.2 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.

. **Relevant phrases**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.
. **Abbreviations and acronyms:**
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

. *** Data compared to the previous version altered.**

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.01.2016 Version number 16 Revision: 25.01.2016

* **1 Identification of the substance/mixture and of the company/undertaking**

. **1.1 Product identifier**

. **Trade name:** BISON MIRROR ADHESIVE CRT 425G*12 L143

. **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** Adhesive

. **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

* **2 Hazards identification**

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

. **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not applicable.

. **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

. **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

. **2.2 Label elements**

. **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

. **2.3 Other hazards**

. **Results of PBT and vPvB assessment**

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

* **3 Composition/information on ingredients**

. **3.2 Mixtures**

. **Description:** Adhesive

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Safety data sheet

according to 1907/2006/EC, Article 31

DPD Declaration

Printing date 25.01.2016 Version number 16 Revision: 25.01.2016

Trade name: BISON MIRROR ADHESIVE CRT 425G*12 L143

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. **Dangerous components:**

CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52	trimethoxyvinylsilane Xn R20; F R10	2,5-10%
CAS: 68512-30-1 Reg.nr.: 01-2119555274-38	Fenol, methyl-gestyreneerd Xi R38; Xi R43 R52/53	2,5-10%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39	N-(3-(trimethoxysilyl)propyl)ethylenediamine Xn R20; Xi R41; Xi R43; N R51/53	≤ 2,5%
CAS: 41556-26-7	bis-(1,2,2,6,6,-pentamethyl-4-piperidyl) sebacate Xi R43; N R50/53	≤ 2,5%

. **Additional information:**
For the wording of the listed hazard phrases refer to section 16.

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.
. **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.

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.

6 Accidental release measures

. **6.1 Personal precautions, protective equipment and emergency procedures**
Not required.
. **6.2 Environmental precautions:**
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).
. **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.

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Safety data sheet
according to 1907/2006/EC, Article 31

DPD Declaration

Printing date 25.01.2016 Version number 16 Revision: 25.01.2016

Trade name: BISON MIRROR ADHESIVE CRT 425G*12 L143

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7 Handling and storage

. **7.1 Precautions for safe handling** No special measures required.
. **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.
. **7.3 Specific end use(s)** No further relevant information available.

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.
. **Respiratory protection:** Not required.
. **Protection of hands:**
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.
. **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
. **Eye protection:** Goggles recommended during refilling

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:**	Not determined.

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Safety data sheet
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. **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	270 °C
. **Flash point:**	> 100 °C
. **Flammability (solid, gaseous):**	Not applicable.
. **Ignition temperature:**	
Decomposition temperature:	Not determined.
. **Self-igniting:**	Product is not selfigniting.
. **Danger of explosion:**	Product does not present an explosion hazard.
. **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
. **Vapour pressure:**	Not determined.
. **Density at 20 °C:**	1.497 g/cm³
. **Relative density**	Not determined.
. **Vapour density**	Not determined.
. **Evaporation rate**	Not determined.
. **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
. **Partition coefficient (n-octanol/ water):**	Not determined.
. **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solids content:	91.8 %
. **9.2 Other information**	No further relevant information available.

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.
. **10.5 Incompatible materials:** No further relevant information available.
. **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

. **11.1 Information on toxicological effects**
. **Acute toxicity**
. **Primary irritant effect:**
. **Skin corrosion/irritation** No irritant effect.
. **Serious eye damage/irritation** No irritating effect.
. **Respiratory or skin sensitisation** No sensitising effects known.

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. **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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.
. **Additional ecological information:**
. **General notes:**
Water hazard class 1 (German Regulation) (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.
. **12.5 Results of PBT and vPvB assessment**
. **PBT:** Not applicable.
. **vPvB:** Not applicable.
. **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

. **13.1 Waste treatment methods**
. **Recommendation** Smaller quantities can be disposed of with household waste.

. **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.

14 Transport information

. **14.1 UN-Number**
. **ADR,ADN, ADN, IMDG, IATA** Void
. **14.2 UN proper shipping name**
. **ADR,ADN, ADN, IMDG, IATA** Void
. **14.3 Transport hazard class(es)**

. **ADR,ADN, ADN, IMDG, IATA**
. **Class** Void
. **14.4 Packing group**
. **ADR,ADN, IMDG, IATA** Void
. **14.5 Environmental hazards:**
. **Marine pollutant:** No
. **14.6 Special precautions for user** Not applicable.
. **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

. **Transport/Additional information:**

. **IMDG**
. **Remarks:** Under certain conditions substances in Class 3 (flammable liquids) can be classified in

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. packinggroup III.
See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2

* **15 Regulatory information**

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

. **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

. **Directive 2012/18/EU**
. **Named dangerous substances - ANNEX I** None of the ingredients is listed.
. **15.2 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.

. **Relevant phrases**
R10 Flammable.
R20 Harmful by inhalation.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
. *** Data compared to the previous version altered.**

GB-D