



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.09.2015

Version number 16

Revision: 02.09.2015

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

1.1 Product identifier

Trade name: BISON 2K EXPERT POLYURETHAANLIJM SET 900G*4 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 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

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: Void

Additional information:

For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

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.

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

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. 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 through 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: Undetermined.

. 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: 1.44 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.

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- . **Partition coefficient (n-octanol/water):** Not determined.
- . **Viscosity:**
 - Dynamic at 20 °C:** 150000 mPas
 - Kinematic:** Not determined.
 - Solids content:** 100.0 %
- . **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- . **10.1 Reactivity**
- . **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.

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**

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

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- . **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 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
 - . **UN "Model Regulation":** -

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.

- . **Department issuing MSDS:** QESH Department
- . **Contact:** Reach coördinator
- . * Data compared to the previous version altered.

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Revision: 28.07.2015

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

1.1 Product identifier

Trade name: BISON 2K EXPERT POLYURETHAANLIJM SET 900G*4 NLFR

CAS Number:
9016-87-9

EC number:
202-966-0

Index number:
615-005-00-9

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

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07



GHS08

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- . **Signal word** Danger
- . **Hazard-determining components of labelling:**
diphenylmethanediisocyanate, isomeres and homologues
- . **Hazard statements**
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
- . **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.
P281 Use personal protective equipment as required.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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.

3 Composition/information on ingredients

- . **3.1 Substances**
- . **CAS No. Description**
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
- . **Identification number(s)**
- . **EC number:** 202-966-0
- . **Index number:** 615-005-00-9

4 First aid measures

- . **4.1 Description of first aid measures**
- . **General information:**
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.
- . **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** Do not induce vomiting; call for medical help immediately.
- . **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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- . **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:** Mount respiratory protective device.

6 Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- . **6.2 Environmental precautions:** No special measures required.
- . **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

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.
- . **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:**
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO
- . **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.

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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 and skin.

- . **Respiratory protection:** 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.
- . **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 permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
PVC or PE gloves
- . **Eye protection:**



Tightly sealed goggles

- . **Body protection:** Use protective suit.

9 Physical and chemical properties

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

. **General Information**

. **Appearance:**

Form: Liquid
 Colour: According to product specification

. **Odour:** Weak, characteristic

. **Odour threshold:** Not determined.

. **pH-value:** Not determined.

. **Change in condition**

Melting point/Melting range: < 0 °C
 Boiling point/Boiling range: 190 °C

. **Flash point:** > 110 °C

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

. **Ignition temperature:** 400 °C

. **Decomposition temperature:** Not determined.

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- . **Self-igniting:** Not determined.
- . **Danger of explosion:** Product does not present an explosion hazard.
- . **Explosion limits:**
 - Lower: Not determined.
 - Upper: Not determined.
- . **Vapour pressure at 25 °C:** 0.0002 hPa
- . **Density at 20 °C:** 1.22 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: 100.0 %
- . **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- . **10.1 Reactivity**
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions**
 - Reacts with alcohols.
 - Reacts with water.
 - Reacts with alkali, amines and strong acids.
- . **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.

11 Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity**
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- . **Serious eye damage/irritation** Irritating effect.
- . **Respiratory or skin sensitisation**
 - Sensitisation possible through inhalation.
 - Sensitisation possible through skin contact.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - Carc. 2

12 Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:** No further relevant information available.

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- . **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:** Generally not hazardous for water
- . **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**
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.

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 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
- . **UN "Model Regulation":** -

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**
The substance is classified and labelled according to the CLP regulation.

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. **Hazard pictograms**



GHS07 GHS08

. **Signal word** Danger

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

diphenylmethanediisocyanate, isomeres and homologues

. **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

. **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.

P281 Use personal protective equipment as required.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

. **Directive 2012/18/EU**

. **Named dangerous substances - ANNEX I** Substance is not 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.

. **Department issuing MSDS:** QESH Department

. **Contact:** Reach coördinator

. **Abbreviations and acronyms:**

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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

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

1.1 Product identifier

Trade name: BISON 2K EXPERT POLYURETHAANLIJM SET 900G*4 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 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 has 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:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Observe the general safety regulations when handling chemicals.

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: Void

Additional information:

For the wording of the listed risk phrases refer to section 16.

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* **4 First aid measures**

. **4.1 Description of first aid measures**

- . **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**

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 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.

. **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.

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- . **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.
Wash hands before breaks and at the end of work.
- . **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 through 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: Undetermined.
- . **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:** 1,44 g/cm³

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- . **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 at 20 °C:** 150000 mPas
 - Kinematic:** Not determined.
 - Solids content:** 100,0 %
- . **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- . **10.1 Reactivity**
- . **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.

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.

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* **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.

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 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

* **15 Regulatory information**

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

. **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

. **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.

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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 MSDS:** QESH Department
- . **Contact:** Reach coördinator
- . *** Data compared to the previous version altered.**

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

1.1 Product identifier

Trade name: BISON 2K EXPERT POLYURETHAANLIJM SET 900G*4 NLFR

CAS Number:
9016-87-9

EC number:
202-966-0

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.

Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Information concerning particular hazards for human and environment:

Not applicable.

2.2 Label elements

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful

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. Risk phrases:

- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

. Safety phrases:

- 23 Do not breathe vapour.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.

. Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

. 2.3 Other hazards

. Results of PBT and vPvB assessment

- . PBT:** Not applicable.
- . vPvB:** Not applicable.

3 Composition/information on ingredients

. 3.1 Substances

. CAS No. Description

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

. Identification number(s)

. EC number: 202-966-0

4 First aid measures

. 4.1 Description of first aid measures

. General information:

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.

. After skin contact: Immediately wash with water and soap and rinse thoroughly.

. After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

. After swallowing: Do not induce vomiting; call for medical help 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.

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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:** Mount respiratory protective device.

6 Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- . **6.2 Environmental precautions:** No special measures required.
- . **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

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.
- . **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:**
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
WEL (Great Britain) Short-term value: 0,07 mg/m³
Long-term value: 0,02 mg/m³
Sen; as -NCO
- . **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

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- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- . **Respiratory protection:** 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.
 - . **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.
 - . **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
PVC or PE gloves
 - . **Eye protection:**



Tightly sealed goggles

- . **Body protection:** Use protective suit.

9 Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form: Liquid
 Colour: According to product specification

. Odour: Weak, characteristic

. Odour threshold: Not determined.

. pH-value: Not determined.

. Change in condition

Melting point/Melting range: < 0 °C
 Boiling point/Boiling range: 190 °C

. Flash point: > 110 °C

. Flammability (solid, gaseous): Not applicable.

. Ignition temperature: 400 °C

. Decomposition temperature: Not determined.

. Self-igniting: Not determined.

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

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- . **Explosion limits:**
 - Lower: Not determined.
 - Upper: Not determined.
- . **Vapour pressure at 25 °C:** 0,0002 hPa
- . **Density at 20 °C:** 1,22 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: 100,0 %
- . **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- . **10.1 Reactivity**
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions**
Reacts with alcohols.
Reacts with water.
Reacts with alkali, amines and strong acids.
- . **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.

11 Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity**
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- . **Serious eye damage/irritation** Irritating effect.
- . **Respiratory or skin sensitisation**
Sensitisation possible through inhalation.
Sensitisation possible through skin contact.

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.

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- . **Additional ecological information:**
- . **General notes:** Generally not hazardous for water
- . **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**
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.

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 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

* **15 Regulatory information**

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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. Code letter and hazard designation of product:



Xn Harmful

. Risk phrases:

- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

. Safety phrases:

- 23 Do not breathe vapour.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.

. Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

. Directive 2012/18/EU

. Named dangerous substances - ANNEX I Substance is not 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.

- . Department issuing MSDS:** QESH Department
- . Contact:** Reach coördinator
- . * Data compared to the previous version altered.**

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