

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 21.12.2009

Revision: 19.02.2009

1 Identification of substance:

- **Product details:**
- **Trade name:** MAROCOL 18576A
- **Article number:** 173259
- **Application of the substance / preparation** Adhesives
- **Manufacturer/Supplier:**
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De Voerman 8
5215 MH 's-Hertogenbosch
The Netherlands
Tel.: +31 (0)73 6 244 244
email: infonl@bostik.com
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- BOSTIK BELUX SA-NV
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email: info@bostik.be
internet: www.bostik.be
- **Informing department:** Product Safety Department

2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man 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 in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Description:** Mixture of substances with harmless additions.

- **Dangerous components:**

CAS: 25322-69-4	polypropyleneglycol (PPG)	 Xn; R 22	5-20%
EINECS: 200-338-0			

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information** No special measures required.
- **After skin contact** Instantly rinse with water.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** In case of persistent symptoms consult doctor.

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5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous materials are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Recommended storage temperature:** 10 - 30 °C

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components 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 that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
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**
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.

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· Eye protection: Safety glasses recommended during refilling.

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Cream coloured
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: 350°C

· Flash point: 230°C**· Ignition temperature:** 450°C**· Self-inflammability:** Product is not selfigniting.**· Danger of explosion:** Product is not explosive.**· Vapour pressure at 20°C:** 1 hPa**· Density at 20°C** 1.67 g/cm³**· Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Materials to be avoided:**
- Dangerous reactions** No dangerous reactions known.
- Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:**· LD/LC50 values that are relevant for classification:****Branched polyether/polyester polyol**

Oral LD50 5000 mg/kg (rat)

· Primary irritant effect:**· on the skin:** No irritant effect.**· on the eye:** No irritant effect.**· Sensitization:** No sensitizing effect known.**· Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **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 bodies or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation** Smaller quantities can be disposed with household waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

15 Regulatory information

- **Designation according to EC guidelines:**

Observe the normal safety regulations when handling chemicals

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **MAL-Code**

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

22 Harmful if swallowed.

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1 Identification of substance:

· **Product details:**

· **Trade name:** MAROCOL 18576 B

· **Article number:** 171609

· **Application of the substance / preparation** Hardening agent/ Curing agent

· **Manufacturer/Supplier:**

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internet: www.bostik.be

· **Informing department:** Product Safety Department

2 Hazards identification

· **Hazard designation:**



Xn Harmful

· **Information pertaining to particular dangers for man and environment**

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

Contains isocyanates. See information supplied by the manufacturer

3 Composition/information on ingredients

· **Chemical characterization:**

· **CAS No. Designation:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

· **Chemical characterization**

· **Description:** Diphenylmethanediisocyanate, isomeres/homologues.

4 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.

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- **After inhalation**
Supply fresh air and call for doctor for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, sand, extinguishing powder. Do not use water.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water.
- **Protective equipment:** Put on breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Remove mechanically; cover remainders with wet, absorbant material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO₂!). Keep damp in a safe ventilated area for several days.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Recommended storage temperature:** 5 - 30 °C

8 Exposure controls and personal protection

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

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· Components with limit values that require monitoring at the workplace:

101-68-8 diphenylmethane-4,4'-di-isocyanate

MEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Not necessary if room is well-ventilated.

· **Protection of hands:** Protective gloves.

· **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.

Chloroprene rubber, CR

Butyl rubber, BR

· **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:** Tightly sealed safety glasses.

9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Dark brown
Odour:	earthy, musty

· **Change in condition**

Melting point/Melting range: 41°C

Boiling point/Boiling range: 190°C

· **Flash point:** 111°C

· **Ignition temperature:** 400°C

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

Lower: 0.4 Vol %

· **Vapour pressure at 25°C:** 0.0002 hPa

· **Density at 20°C** 1.24 g/cm³

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· **Solubility in / Miscibility with**

Water:

Insoluble, reacts

Not miscible or difficult to mix

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

Thermal decomposition: Polymerizes about 260 °C with evolution of CO₂.

· **Materials to be avoided:**

Acids, oxidizing products.

Hazardous reactions: Exothermic reaction with amines, alcohols, acids and alkali. Reacts with water forming CO₂.

· **Dangerous reactions** Reacts with alcohols, amines, aqueous acids and alkalis

· **Dangerous products of decomposition:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

· **Additional information:** Open pressurized containers carefully to release pressure.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral	LD50	> 2000 mg/kg (rbt)
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· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritant effect.

· **Sensitization:**

Sensitization possible by inhalation.

Sensitization possible by skin contact.

Irritation of the mucous membranes in the nose, throat and lungs, dryness of the throat, pressure on the chest, sometimes accompanied by breathing difficulties and headaches. Delayed appearance of the symptoms and allergic reaction in susceptible persons possible.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

· **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information:

· **Additional ecological information:**

· **General notes:**

Do not allow to escape into waters, wastewater or soil.

The product reacts with water at interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents.

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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 bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID-GGVSE Class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **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.
42/43 May cause sensitisation by inhalation and skin contact.

- **Safety phrases:**
1/2 Keep locked up and out of the reach of children.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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· **Special designation of certain preparations:**
Contains isocyanates. See information supplied by the manufacturer

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
I	75-100

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

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GB