



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 19.03.2009

Revision: 19.03.2009

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** 6.40 ZWALUW SUPER ADHESIVE
- **Article number:** MD-MGL
- **Application of the substance / the preparation**  
Adhesives  
Glue/ Sizing agent
- **Manufacturer/Supplier:**  
DEN BRAVEN SEALANTS BV  
Denariusstraat 11  
4903 RC Oosterhout  
Netherlands  
Tel: +31 (0)162-491000  
Fax: +31 (0)162-421217  
E-mail: info@denbraven.nl  
Internet: www.denbraven.nl
- **Further information obtainable from:**  
Product safety department.  
info@denbraven.nl
- **Information in case of emergency:**  
info@denbraven.nl  
Tel.: +31 (0)162-491000

### 2 Hazards identification

- **Hazard description:**



Xi Irritant

- **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.  
R 36/37/38 Irritating to eyes, respiratory system and skin.  
Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 7085-85-0 EINECS: 230-391-5	ethyl 2-cyanoacrylate Xi; R 36/37/38	50 - < 100%
CAS: 9011-14-7	polymethylmethacrylate Xi; R 36/37/38	1 - < 20%
CAS: 123-31-9 EINECS: 204-617-8	1,4-dihydroxybenzene Carc. Cat. 3, Muta. Cat. 3;  Xn,  Xi,  N; R 22-40-41-43-68-50	0.1 - < 1.0%

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

### 4 First aid measures

- **After inhalation:** In case of unconsciousness place patient stably 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:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** No special measures required.
- **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 container tightly sealed.

### 8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

<b>7085-85-0 ethyl 2-cyanoacrylate (60-100%)</b>	
WEL	Short-term value: 1.5 mg/m <sup>3</sup> , 0.3 ppm
<b>123-31-9 1,4-dihydroxybenzene (≤1.0%)</b>	
WEL	Long-term value: 0.5 mg/m <sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
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.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **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.

- **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:**



Tightly sealed goggles

### 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 185°C

- **Flash point:** > 55°C

- **Ignition temperature:** Undetermined.

- **Self-igniting:** Product is not selfigniting.

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

- **Explosion limits:**

**Lower:** Undetermined.

**Upper:** Undetermined.

- **Vapour pressure:** Undetermined.

- **Density at 20°C:** 1.07 g/cm<sup>3</sup>

- **Solubility in / Miscibility with**

**water:** Insoluble.

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· **pH-value:** Undetermined.· **Solvent content:**

VOC (EC) 0.00 %

VOC (EC) g/l

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions**
  - Reacts with strong oxidizing agents.
  - Reacts with water.
  - Reacts with alkali (lyes).
  - Reacts with amines.
  - Reacts with alcohols.
- **Dangerous decomposition products:** Irritant gases/vapours

### 11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:****123-31-9 1,4-dihydroxybenzene**

Oral LD50 320 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

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

Irritant

### 12 Ecological information

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

· **Product:**· **Recommendation**

Must not be disposed 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

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

### 14 Transport information

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

- **Maritime transport IMDG:**
- **IMDG Class:** -

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

### 15 Regulatory information

- **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:**



Xi Irritant

- **Risk phrases:**

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

- **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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.

51 Use only in well-ventilated areas.

60 This material and its container must be disposed of as hazardous waste.

- **Special labelling of certain preparations:**

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Contains 1,4-dihydroxybenzene. May produce an allergic reaction.

### 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 R-phrases**

22 Harmful if swallowed.

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

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50 Very toxic to aquatic organisms.

68 Possible risk of irreversible effects.

- **Department issuing MSDS:** Product safety department.

- **Contact:** Mr. C.J.A. Timmermans