

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

CG 500 B

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

2-component epoxy adhesive (Hardener)

### 1.3. Details of the supplier of the safety data sheet

Company name: D. Swarovski Distribution GmbH  
Street: Swarovskistraße 30  
Place: 6112 Wattens  
Country: Austria  
Telephone: 0043 (0)5224 500 1330

Emergency telephone number: 0043 (0)5224 500 1330

Responsible for the safety data sheet: technical.customer.support@swarovski.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS classification

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

Polyaminoamide

Signal word: Danger

Pictograms: GHS05



#### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Precautionary statements

H280 Wear protective gloves/protective clothing/eye protection/face protection.

H302+H352 IF ON SKIN: Wash with plenty of water.

H333+H313 If skin irritation occurs: Get medical advice/attention.

H361 Take off contaminated clothing.

H305+H338+H351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

H310 Immediately call a POISON CENTER/doctor.

### 2.3. Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of organic amines

#### Hazardous components

| EC No        | Chemical name  | Quantity |
|--------------|--|----------|
| CAS No       | Classification   |          |
| Index No     | GHS classification   |          |
| REACH No     |  |          |
|              | Polyaminoamide   | > 80 %   |
|              |  |          |
|              | Polyaminoamide   | < 10 %   |
| 68082-29-1   | Skin Irrit.2, Skin Sens.1, Eye Dam.1, Aquatic Chronic 2 H315, H317, H318, H411                       |          |
| 203-986-2    | Tetraethylenepentamine   | < 2,5 %  |
| 112-57-2     |  |          |
| 612-060-00-0 | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 2; H312 H302 H314 H317 H411 |          |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

#### After contact with skin

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

#### After ingestion

Induce vomiting only upon the advice of a physician.  
Immediately give plenty of water (if possible charcoal slurry).  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting.  
Summon a doctor immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin.  
May cause sensitization by skin contact.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

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**Unsuitable extinguishing media**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

**6.2. Environmental precautions**

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/ground water.

**6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**6.4. Reference to other sections**

Information for disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Keep container tightly closed.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Protect against direct sun radiation.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

2-component epoxy adhesive (Hardener)

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.2. Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.  
Use barrier skin cream.  
Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Eye wash bottle with pure water (EN 15154).  
Tightly fitting goggles (EN 166).

**Hand protection**

In full or splash contact: Glove of nitrile rubber, breakthrough time > 480 min.  
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing (EN 368).

**Respiratory protection**

No personal respiratory protective equipment normally required.

**SECTION 9: Physical and chemical properties**

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

|  |                         |           |
|--|-------------------------|-----------|
| Physical state:                          | Liquid                  |           |
| Colour:                                  | Yellow                  |           |
| Odour:                                   | Soft                    |           |
| Initial boiling point and boiling range: | n.a.                    | DIN 51571 |
| Flash point:                             | > 175 °C                | DIN 51758 |
| Lower explosion limits:                  | n.d.                    |           |
| Upper explosion limits:                  |                         |           |
| Vapour pressure: (at 20 °C)              | 0,1 hPa                 |           |
| Density (at 25 °C):                      | 0,985 g/cm <sup>3</sup> | DIN 51757 |
| Water solubility:                        | Immiscible              |           |
| Ignition temperature:                    | > 300 °C                | DIN 51794 |
| Viscosity / dynamic: (at 23 °C)          | 13000 mPa·s             |           |

**9.2. Other information**

No data available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

No data available.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

**Further information**

No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

No toxicological data available.

| CAS No   | Chemical name          |        |           |           |        |
|----------|------------------------|--------|-----------|-----------|--------|
|          | Exposure routes        | Method | Dose      | Species   | Source |
| 112-57-2 | Tetraethylenepentamine |        |           |           |        |
|          | oral                   | ATE    | 500 mg/kg |           |        |
|          | dermal                 | LD50   | 660 mg/kg | Kaninchen | RTECS  |

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye damage.

Eye irritation: Irritant

Skin irritation: Irritant

**Sensitising effects**

Based on available data, the classification criteria are not met.

Sensitization through skin contact possible.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

STOT - Single exposure: Not classified.

STOT - Repeated exposure: Not classified.

Aspiration hazard: Not classified.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Teratogenicity: Not classified.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecological data are not available.

| CAS No   | Chemical name            |        |           |           |                           |        |
|----------|--------------------------|--------|-----------|-----------|---------------------------|--------|
|          | Aquatic toxicity         | Method | Dose      | [h]   [d] | Species                   | Source |
| 112-57-2 | Tetraethylenepentamine   |        |           |           |                           |        |
|          | Acute fish toxicity      | LC50   | 420 mg/l  | 96 h      | Poecilia reticulata       |        |
|          | Acute algae toxicity     | ErC50  | 2,1 mg/l  | 72 h      | Selenastrum capricornutum |        |
|          | Acute crustacea toxicity | EC50   | 24,1 mg/l | 48 h      | Daphnia magna             |        |

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**Partition coefficient n-octanol/water**

| CAS No   | Chemical name          | Log Pow |
|----------|------------------------|---------|
| 112-57-2 | Tetraethylenepentamine | -1,05   |

**12.4. Mobility in soil**

No data available.

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### **12.5. Results of PBT and vPvB assessment**

No data available.

### **12.6. Other adverse effects**

No data available.

### **Further information**

Do not flush into surface water or sanitary sewer system.

Hazardous water pollutant.

Not readily biodegradable.

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## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Advice on disposal**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

#### **Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
Classified as hazardous waste.

#### **Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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## **SECTION 14: Transport information**

### **14.1. Special precautions for user**

No specific precautions required.

### **14.2. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

The transport takes place only in approved and appropriate packaging.

#### **Other applicable information**

No hazardous material as defined by the transport regulations.

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## **SECTION 15: Regulatory information**

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

#### **EU regulatory information**

1999/13/EC (VOC): 0 %

#### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

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## **SECTION 16: Other information**

### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### **Relevant H- and EUH-phrases (Number and full text)**

H302 Harmful if swallowed.

H310 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

#### **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*