

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 27.01.2009

### 1 Identification of substance

- **Product details**
- **Trade name** Epoxy BS 2000 clear, component A
- **Article number:** 6011
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**  
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### 2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
R 41 Risk of serious damage to eyes.  
R 43 May cause sensitisation by skin contact.
- **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

- **Chemical characterization**
- **Description:** modified polyaminoamide in water

- **Dangerous components:**

	Polyaminoamide	Xi; R 38-41-43	10-20%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol	Xn, Xi; R 20/21/22-36/38	5-10%
CAS: 4067-16-7 EINECS: 223-775-9	3,6,9,12-tetra-azatetradecamethylenediamine	C, N; R 34-43-50/53	≤0.5%

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

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**4 First aid measures****· General information**

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

**· 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**

Wash immediately with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**· After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.**· After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

**· Information for doctor****· The following symptoms may occur:**

In case of prolonged/repeated exposure or in high concentrations:

Headache

Dizziness

nausea

Coughing

Excessive contact with skin, eyes or respiratory system may cause irritation.

Eye contact may cause temporary pain.

**· Danger** Danger by skin resorption.**· Treatment** symptomatic treatment**5 Fire fighting measures****· Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**· For safety reasons unsuitable extinguishing agents** Water with a full water jet.**· Special hazards caused by the material, its products of combustion or flue gases:**

May be released in case of fire

Nitrous gases

Carbon monoxide (CO)

Carbon dioxide

Under certain fire conditions, traces of other toxic substances cannot be excluded.

**· Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

**· Additional information**

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6 Accidental release measures****· Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**· Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

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· **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.

## 7 Handling and storage

· **Handling**

· **Information for safe handling:**

Use only in well ventilated areas.

Open and handle container with care.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· **Information about protection against explosions and fires:** No special requirements.

· **Storage**

· **Requirements to be met by storerooms and containers:** Prevent any penetration into the ground.

· **Information on storage in a common storage facility:**

Do not store together with alkalis (lyes).

Store away from oxidizing agents.

· **Further information about storage conditions:**

Store cool and dry in tightly closed containers.

Store container in a well ventilated position.

Protect from heat and direct sunlight.

Protect from frost.

## 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:**

**111-76-2 2-butoxyethanol**

WEL	Short-term value: 50 ppm
	Long-term value: 25 ppm
Sk	

· **Additional information:** The lists that were valid during compilation were used as a basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Immediately remove soiled, saturated clothing.

Keep away from food, beverages and animal feed.

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

Do not inhale gases / vapours / aerosols.

· **Respiratory equipment:**

In case of insufficient ventilation, use respiratory protection:

Short term filter device:

Filter A (brown)

Only use ambient air independent respiratory equipment in pits, shafts and silos!

· **Protection of hands:** Long cuffed gloves

· **Material of gloves:** Nitrile rubber, NBR

· **Penetration time of glove material**

Break through time: max. 240 min (DIN EN 374).

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:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined

· **Flash point:** > 160°C

· **Self-inflammability:** Product is not self-igniting.

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

· **Density at 20°C** ca. 1.01 g/cm<sup>3</sup>

### · Solubility in / Miscibility with

**Water:** miscible

### · Viscosity:

**dynamic at 20°C:** ca. 200 mPas

## 10 Stability and reactivity

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

No decomposition if used according to specifications.  
No decomposition if handled and stored according to specifications.

### · Materials to be avoided:

Strong oxidising agents  
Strong bases  
Amines

· **Dangerous reactions** Prevent the entrance of air/oxygen.

### · Dangerous decomposition products:

May be released in fire:  
Carbon monoxide and carbon dioxide  
Nitrous vitriol gases  
Poisonous gases/vapours  
Irritating gases/vapours  
Inflammable gases/vapours

## 11 Toxicological information

### · Acute toxicity:

### · Primary irritant effect:

· **on the skin:** No irritating effect.

· **on the eye:** Strong irritating effect with the danger of severe eye injury.

· **Sensitisation:** Sensitisation possible by skin contact.

### · Experience with humans:

Frequent or longer lasting skin contact may degrease and dry out skin which may lead to skin irritation and inflammation (dermatitis).

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· **Additional toxicological information:**

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

Irritant

- **Sensitisation** May cause sensitisation by skin contact.

## 12 Ecological information:

· **General notes:**

Water hazard class 2 : hazardous to water.

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

## 13 Notes on disposal:

· **Product:**

· **Recommendation**

Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
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08 01 00	wastes from MFSU and removal of paint and varnish
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08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
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20 01 00	separately collected fractions (except 15 01)
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20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
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· **Uncleaned packaging:**

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

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## 14 Transport information

· **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

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

· **Maritime transport IMDG/GGVSea:**

- **IMDG/GGVSea Class:** -

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

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

## 15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

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· **Code letter and hazard designation of product:**



Xi Irritant

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

Polyaminoamide

· **Risk phrases:**

- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 25 Avoid contact with eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

· **National regulations**

· **Water hazard class:**

German Water hazard class 2: hazardous to water.  
according to appendix 4 VwVwS

· **Other regulations, limitations and prohibition ordinances**

· **Professional Association (BG) Code of Practice:**

M 004 "Irritating substances/corrosive substances"  
M 017 "Solvents"

## 16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.  
Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 34 Causes burns.
- 36/38 Irritating to eyes and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing data specification sheet:** Product Safety department