

## MATERIAL SAFETY DATA SHEET according to Regulation 1907/2006/EC, Article 31 BIOMER® 60 E / 80 E / 88 E / 100 E / 110 E / 130 E

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

#### 1.1. Product identifier

Trade name: BIOMER® 60 E  
BIOMER® 80 E  
BIOMER® 80 E (25%)  
BIOMER® 88 E  
BIOMER® 100 E  
BIOMER® 110 E  
BIOMER® 130 E

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

Industrial use (Use category SU 3):

- Additive for water based paints and coatings

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

DEUREX AG  
Dr.-Bergius-Str. 8 – 12  
D - 06729 Elsteraue  
Tel.: +49(0)3441 / 8 29 29 29, Fax: +49(0)3441 / 8 29 29 28  
[Material-Safety@Deurex.com](mailto:Material-Safety@Deurex.com)  
[www.Deurex.com](http://www.Deurex.com)

#### 1.4. Emergency telephone number

Common poisons information centre of the Federal States  
Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia.  
D-99089 Erfurt  
Tel.: +49(0)361-730730

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC – latest revision:

R phrases: None.

S phrases: None.

Classification according to Regulation (EC) 1272/2008 [HCS]:

H phrases: None.

P phrases: None.

#### 2.2. Label elements

Labelling according to Directive 67/548/EEC – latest revision:

None.

Labelling according to Regulation (EC) 1272/2008 [HCS]: None.

**2.3. Other hazards**

No hazardous preparation according to:

- Directive 1999/45/EC
- Regulation EC/1272/2008
- Ordinance on Hazardous Substances (Gefahrstoffverordnung GefStoffV.).

---

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

---

**3.1. Substances**

Chemical Identity:

Biodegradable water-based emulsion

Chemical characterisation:

CAS No.: Preparation, all components have CAS numbers.

REACH : Compliant with Regulation (EC) 1907/2006

---

**SECTION 4: FIRST AID MEASURES**

---

**4.1. Description of first aid measures**

**General information:** Consult a doctor, if symptoms arise or in cases of doubt. In case of unconsciousness, do not infuse anything through mouth.

**Following skin contact:** Take off contaminated and moistened clothing immediately. Wash affected skin with water and soap or use suitable detergents. Do not use solvents or thinners.

**Following eye contact:** Remove contact lenses immediately. Keep eyelids open and rinse under clean, running water for at least 10 minutes. Seek medical advice.



**Following ingestion:** Rinse mouth immediately. Keep victim at rest. In case of swallowing, seek medical advice! Induce vomiting only on medical advice.

---

**SECTION 5: FIREFIGHTING MEASURES**

---

**5.1. Extinguishing media**

Foam, dry extinguisher, carbonic acid, water spray

The product is a water based emulsion, it is incombustible and non-flammable. Use extinguisher appropriate to surrounding fire.

Unsuitable extinguishing media:

Not applicable.

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

Observe decomposition products of the surrounding fire → item 10.

**5.3. Special protective equipment**

Wear protective equipment appropriate to surrounding fire: fire fighters protective clothing and approved location-independent compressed air breathing apparatus.



Do not empty fire water into drains. Fire residues and contaminated fire water must be disposed according to local regulations.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

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

Personal protection measures / protective equipment → Chapter 8.

**6.2. Environmental precautions**

Avoid spreading of product, dike product. Do not empty into drains/surface water/ground water. In case of infiltration into drains/surface water/ground water, inform responsible authorities.

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

Dike spilled material with non-flammable absorbents (e.g. sand, soil, kieselguhr, vermiculite). Collect it in suitable containers for disposal according to local regulations. Clean with detergents, do not use solvents.

**6.4. Waste / Contaminated product**

→ Chapter 13.

---

**SECTION 7: HANDLING AND STORAGE**

---

**7.1. Precautions for safe handling**

Observe general precautionary measures during handling with chemicals. Do not eat, drink or smoke during work and wear suitable protective clothing → item 8.  
Danger of slipping!



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

Storage: Follow information on the label. Store upright and close opened containers tightly to avoid any spilling.

Storage space: Dry and well-ventilated

Storage temperatures: From +6°C to +28°C (Avoid frost and temperatures above 40 °C!)

Storage class: 12 - non-flammable liquid

Fire- /

Explosion protection: No specific measures required.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**
**8.1. Control parameters**

Components with critical values that require monitoring at the workplace:

EINECS No	Chemical name	Description	Value	Unit
---	---	- no information -		

**8.2. Exposure controls**

Exposure limitation and controlling are workplace related and must be regulated by the user.

**8.3. Personal protective equipment**

General protective and hygiene measures:

Usual precautions for handling chemicals. Do not eat, drink or smoke during work, and wear suitable protective clothing.

Eye / Face protection:

Wear safety glasses with side protection or protective mask.



Skin / Body protection:

Wear industrial protective clothing and suitable shoes - danger of slipping.



Hand protection:

Wear protective gloves. Put barrier cream on skin parts that may get in contact with the product.



Breathing protection:

If spray is formed, wear breathing protection.

Protection and hygiene measures:

After contact wash skin parts thoroughly with water and soap or use suitable detergent. Do not use organic solvents.

#### **8.4. Limitation and controlling of environmental exposure**

Information on environmental exposure → Chapters 6, 7 and 12.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. General facts**

State of aggregation: Liquid

Colour: Light yellow opaque till transparent (product specific)

Odour: Product typical

### **9.2. Other facts**

Boiling point: 100 °C

Flashpoint: Not applicable

Ignitability: Not applicable

Explosion limit: Not applicable

Density: ~ 1,00 g/cm<sup>3</sup>

Vapor pressure: 23 mbar at 20 °C

pH-Value: 7.0 – 9.0 (product specific)

Viscosity: < 1,000 mPas

Solubility in water: Miscible

Shelf life: 6 month

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

The product is stable under normal conditions and recommended handling and storage conditions → Chapter 7.

### **10.2. Conditions to avoid:**

Provided the product does not vaporise, it does not support the combustion. → Chapter 7

### **10.3. Materials to avoid:**

Strong acids and bases.

### **10.4. Hazardous decomposition products:**

Decomposition products such as water vapour, CO and CO<sub>2</sub> may be generated at higher temperatures. In case of fire consider the decomposition products according to the kind of fire - Do not breath fumes of fire.

---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

### 11.1. Information on toxicological effects

Acute toxicity:	Unknown
Irritation Skin:	Unknown
Irritation Eyes:	Unknown
Sensitising effect:	Unknown
Rating of the CMR-properties:	The components of these preparations do <u>not</u> fulfil the criteria for CMR categories 1 or 2.

Further information: No further toxicological data available.

---

## SECTION 12: ECOLOGICAL INFORMATION

---

### 12.1. Water hazard class:

1 – slightly hazardous (self-assessed)

### 12.2. Degradability:

The product can be adequately eliminated from water in purification plants due to adsorption by activated sludge.

### 12.3. Bioaccumulation potential:

No ecological data available.

### 12.4. Elimination:

Avoid release to the environment or waters unless the product has been pre-treated. (flocculation, precipitation).

### 12.5. Ecotoxic effects:

Unknown

### 12.6. Rating of PBT-properties:

The components of this preparation do not fulfil the criteria to be classified as PBT or vPvB.

---

## SECTION 13: DISPOSAL CONSIDERATION

---

### 13.1. Waste treatment methods

According to the European list of wastes (decision 2000/532/EC), the classification of the waste key has to be specified by industry and process and conducted in cooperation of the waste producer and the local waste management companies by considering the local waste disposal regulations and national laws and regulations.

### 13.2. Contaminated packaging

Disposal according to local and national regulations. Consult local waste management companies.



---

## SECTION 14: TRANSPORT INFORMATION

---

Transport only in accordance with ADR for road haulage, RID for rail transportation, ADN/IMDG for carriage by vessel/sea and IATA for carriage by air.

**Road / Rail transport (ADR/RID/GGVSE):**

No hazardous good

**Sea transport (ADN/GGVBinSch / IMDG/GGVSea):**

No hazardous good

**Air transport (ICAO-TI / IATA-DGR):**

No hazardous good

---

## SECTION 15: REGULATORY INFORMATION

---

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

Labelling:

According to EC-Directives 67/548/EEC and 1999/45/EC:

None

According to Regulation EC/1272/2008:

None

National regulations:

Consideration of the corresponding arrangements, regulations and laws of the respective country.

Hazardous Incident Ordinance (Störfall-V):

Not applicable

Technical Instruction Air (TA-Luft):

Not applicable

International listing:

The contained substances are listed in the following inventories:

**EINECS** (Europe)      **TSCA** (USA)      **DSL** (Canada)      **AICS** (Australia)

**MITI** (Japan)

---

## SECTION 16: OTHER INFORMATION

---

List of all R and S phrases according to Directive 2001/59/EC dt. 06.08.2001:

R phrases: None

S phrases: None

List of all H and P phrases according to Regulation EC/1272/2008 dt. 16.12.2008:

H phrases: None

P phrases: None

Restrictions:

This information relates only to the above class of products and need not be valid if used with another product or in any special process.

Further information:

The information is based on our present knowledge, it is correct and complete. However, this information is given without a guarantee. It remains the responsibility of the user to satisfy itself whether the information is appropriate and complete for his special use of the product.

Sources: Internal information  
EC-Directives / EC-Regulations