

# Safety Data Sheet

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according to Regulation (EC) No 1907/2006, article 31

**HODT Korrosionsschutz GmbH**

Trade Name: **HODT MULTI FILM**

Print date: 21.03.2013

Revision Date : 2.05.2013

## 01. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY /UNDERTAKING

**Product name:** HODT Multi Film

**Product Description:** Epoxy and acrylic modified alkyd resin in water-based emulsion

**Intended/Recommended use:** anticorrosion primer and sealer

**Company:** HODT Korrosionsschutz GmbH

D-21465 Wentorf bei Hamburg

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## 02. HAZARDS IDENTIFICATION

**Classification:**

**HUMAN AND ENVIRONMENTAL HAZARDS**

None

## 03. COMPOSITION / INFORMATION ON INGREDIENTS

### HAZARDOUS INGREDIENTS

COMPONENT/CAS No.	% (w/w)	EC -No	Classification
2- Butoxyethanol	3,9	203-905-0	Xn; R20/21/22 Xi, R36/38

## 04. FIRST AID MEASURES

**General advises:**

**Inhalation:**

Remove to fresh air. If breathing is difficult give oxygen. Obtain medical advice if there are persistent symptoms.

**Skin:**

Wash immediately with plenty of water and soap.

**Eye:**

Rinse immediately with plenty of water for at least 15 minutes

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### 05. FIRE FIGHTING MEASURES

#### **Suitable Extinguishing Media:**

Use water spray or fog, carbon dioxide or dry chemicals.

#### **Protective equipment:**

Firefighters, and other exposed, wear self-contained breathing apparatus.

#### **Special hazards:**

Keep containers cool by spraying with water if exposed to fire.

### 06. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions:**

Where exposure level is not know, wear approved, positive pressure, self contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Methods for cleaning up:

Cover spills with some inert absorbent material; sweep up and place in a waste disposal container.

### 07. HANDLING AND STORAGE

#### **Handling**

Precautionary Measures: avoid contact with eyes, skin and clothing. Keep Container closed. Wash thoroughly after handling.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values.

#### **Storage**

Store in a cool, dry, well ventilated place and keep container tightly closed. Observe the general rules of industrial fire protection. Sensitive to frost.

**Storage Temperature:** Store at 0 - 25 °C.

**Reason:** Integrity

**VCI Storage Class:** 10

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## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures:

Engineering controls are not usually necessary if good hygiene practices are followed.

### Respiratory protection:

Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

### Eye protection:

Wear eye/face protection such as chemical splash-proof goggles or face shield.

### Skin protection:

Avoid skin contact.

Wear impermeable gloves and suitable protective clothing.

Since this product is absorbed through the skin, care must be taken to prevent skin contact and contamination of clothing.

### Hand protection:

Nitrile or fluorinated rubber gloves. Consider the porosity and elasticity data of the glove manufacturer and the specific conditions in work place.

### Additional Advice:

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

### EXPOSURE LIMIT(S)

#### 111-76-2 2-Butoxyethanol

United Kingdom: WEL (Workplace Exposure Limits)	25 ppm (TWA)
	50 ppm (STEL)
(Health Guidance Value)	(EH40)
Europe: ILV (Indicative Limit Values)	Not established
Other Value	Not established

## 09. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	opaque
Appearance:	liquid
Odor:	mild
Boiling point /range:	100 - 200 °C
Melting Point:	not applicable
Vapour pressure:	<25 hPa (calculated) @ 20 °C
Specific Gravity:	~1,02 DIN EN ISO 2811-2
Vapour density:	not available
Percent Volatile:	64 - 66 mostly water
Solid Content:	34 - 36 % DIN 55671
pH:	8 - 9,5 DIN ISO 976

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Saturation in Air (% by Vol.): Not available  
Evaporation rate: Not available  
Solubility in water: dispersible  
Acid Number (mg KOH/g): Not available  
Hydroxyl Value: Not available  
Volatile Organic Content: Not available  
Flash Point: > 100 °C DIN EN ISO 2719  
Flammable Limits (% by Vol): Not available  
Autoignition temperature: Not available  
Decomposition temperature: Not available  
Partition coefficient  
(n-octanol/water): Not available  
Fat solubility (Solvent-Oil): Not available  
Viscosity (Kinematic): Not available  
Viscosity (Dynamic): 2500 - 120000 mPa.s @ 23 °C DIN EN ISO3219

### 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions to avoid:** Stable under normal temperatures and pressure  
**Polymerization:** Will not occur  
**Materials to avoid:** None known  
**Hazardous decomposition  
Products:** Carbon monoxide and carbon dioxide

### 11. TOXICOLOGICAL INFORMATION

**Potential health effects:**  
None

#### PRODUCT TOXICITY INFORMATION

##### ACUTE TOXICITY INFORMATION:

Oral	rat	Acute LD50	>5000 mg/kg
Dermal	rabbit	Acute LD50	>2000 mg/kg
Inhalation	rat	Acute LC50 4 hr	>20 mg/l

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### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	Not irritating
Acute Irritation	eye	Not irritating

### ALLERGIC SENSITIZATION

Sensitization	skin	Not sensitizing
Sensitization	respiratory	Not sensitizing

### GENOTOXICITY

#### Assays for Gene Mutations

Ames Salmonella Assay	No data
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### OTHER INFORMATION

The product toxicity information above has been estimated.

When the preparation test data are not available, the preparation has been assessed following the conventional method of the Dangerous Preparation Directive 1999/45/EC and Classified for toxicological hazard accordingly. See sections 3 and 15 for details.

### HAZARDOUS INGREDIENT TOXICITY DATA

#### ACCUTE TOXICITY DATA

2-Butoxyethanol

Oral (gavage)	rat	Acute LD50 (Actual)	470 - 3000 mg/kg
Dermal rabbit		Acute LD50 (Actual)	400 mg/kg
Inhalation	rat	Acute LC50 (Actual)	4 hr 2,17 mg/l

#### LOCAL EFFECTS ON SKIN AND EYE

2-Butoxyethanol

Acute Dermal Irritation	irritating
Acute Eye Irritation	irritating

## 12. ECOLOGICAL INFORMATION

This preparation is not classified as dangerous for the environment.

The ecological assessment for the material is based on an evaluation of its components.

## 13. DISPOSAL CONSIDERATIONS

The Company encourage the recycle, recovery and reuse of the preparation, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

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### 14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate regulations for specific requirements.

**ADR/RID**

Proper Shipping Name: Not applicable/Not regulated

**IMO**

Proper Shipping Name: Not applicable/Not regulated

**ICAO/IATA**

Proper Shipping Name: Not applicable/Not regulated

Packing Instructions/Maximum Net Quantity per Package:

Passenger Aircraft: -

Cargo Aircraft: -

### 15. REGULATORY INFORMATION

#### Labelling according to EC Directives

**Symbol(s):** None required

**Risk Phrases:** None

**Safety Phrases:** None

#### HAZARDOUS INGREDIENTS

No Hazardous Ingredients for Label

**Water Endangering Class (Germany):** 1 according to VwVwS, 17.05.1999

#### INVENTORY INFORMATION

##### European Union (EU):

All components of this product are included on the European inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

##### United States (USA):

All components of this product are included on the TSCA Chemical Inventory or are not Required to be listed on the TSCA Chemical Inventory.

The final product contains a component exempt from the requirement listing on the TSCA Inventory under the provisions of the Polymer Exemption, 40 CFR 723.250.

##### Canada:

This product contains components not on the Domestic Substances List.

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### **Australia:**

One or more components of this product have NOT yet been included in the Australian Inventory of Chemical Substances (AICS) or assessed by NICNAS.

### **China:**

All components of this product are included on the Chinese Inventory or are not required to be listed on the Chinese Inventory.

### **Japan:**

All components of the product are NOT included on the Japanese (ENCS) Inventory.

### **Korea:**

All components of this product are NOT included on the Korean (ECL) Inventory.

### **Philippines:**

All components of this product are NOT included on the Philippine (PICCS) Inventory.

## **16. OTHER INFORMATION**

### **Component Risk Phrases**

2-Butoxyethanol

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R36/38 - Irritating to eyes and skin

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.