

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

### Identification of the substance or preparation

**Trade name**

MARABU-3D LINER

**Use of the substance/preparation**

Paint

### Company/undertaking identification

**Address**

Marabu GmbH & Co KG  
Asperger Straße 4  
D-71732 Tamm

Telephone no.       (++49)-7141/691-0

Fax no.               (++49)-7141/691-117

**E-mail address of person responsible for this SDS**

PRSI@marabu.de

**Information provided by / telephone**

Product safety +49 7141/691-116 or 232

**Emergency telephone**

++49-621-60-43333

## 2.) Hazards possibilities

**Specific hazards to man and the environment**

None known.

## 3.) Composition / information on ingredients

**Chemical characterization**

Paint based on acrylic resins and on water

**Hazardous ingredients**

**ETHANE-1,2-DIOL**

CAS no.               107-21-1

EINECS no.           203-473-3

Concentration       >= 1                   < 5                   %-b.w.

Classification       Xn;R22

**PROPANE-1,2-DIOL**

CAS no.               57-55-6

EINECS no.           200-338-0

Concentration       >= 1                   < 5                   %-b.w.

## 4.) First aid measures

**After skin contact**

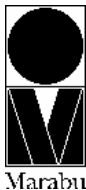
Wash away with soap and water and rinse. Do NOT use solvents or thinners!

**After eye contact**

Flush with plenty of water (10 - 15 min.).

**After ingestion**

Call a physician.



## 5.) Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide, foam, sand, water.

### Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

Material supports the burning only after evaporation of the watery content.

## 6.) Accidental release measures

### Personal precautions

No particular measures required.

### Environmental precautions

No particular measures required.

### Methods for cleaning up

Wash off exhausted ink with cleaning cloths. Wash away or put into household refuse.

## 7.) Handling and storage

### Handling

#### Advice on safe handling

none

#### Advice on protection against fire and explosion

Material supports the burning only after evaporation of the watery content.

### Storage

#### Requirements for storage rooms and vessels

Store in frostfree conditions. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8.) Expose controls/personal protection

### Exposure limit values

#### ETHANE-1,2-DIOL

2000/39/EC

Value 20 ml/m<sup>3</sup> 52 mg/m<sup>3</sup>

STEL 40 ml/m<sup>3</sup> 104 mg/m<sup>3</sup>

Skin resorption /  
sensibilisation skin

WEL (EH40/2005)

Value 20 ml/m<sup>3</sup> 52 mg/m<sup>3</sup>

STEL 40 ml/m<sup>3</sup> 104 mg/m<sup>3</sup>

WEL (EH40/2005) particulate

Value 10 mg/m<sup>3</sup>

WEL (EH40/2005)

Skin resorption /  
sensibilisation Sk

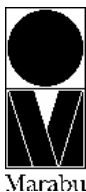
#### PROPANE-1,2-DIOL

WEL (EH40/2005) total vapour and particulates

Value 150 ml/m<sup>3</sup> 474 mg/m<sup>3</sup>

### Exposure controls

No particular measures required.



## 9.) Physical and chemical properties

### General information

Form	liquid
Colour	coloured
Odour	neutral

### Important health, safety and environmental information

#### Changes in physical state

Type	Boiling point	
Value	100	°C
Reference substance	(water)	

#### Flash point

Value	not applicable
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#### Ignition temperature

Value	not applicable
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#### Explosion limits

Remarks	not applicable
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#### Vapour pressure

Value	23		hPa
Reference temperature	20	°C	
Reference substance	(water)		

#### Density

Value	1,0	- 1,1	g/cm <sup>3</sup>
Reference temperature	20	°C	

#### Solubility in water

Remarks	mixable
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#### pH value

Value	7	- 9	
Reference temperature	20	°C	

#### Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

## 10.) Stability and reactivity

### Conditions to avoid

None known.

### Materials to avoid

None known.

### Hazardous decomposition products

None, if handled according to order.

## 11.) Toxicological information

### Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected. Possible effects in case of overexposure:

Splashes in the eyes may cause mild irritation and cause the eyelids to stick together.

If larger quantities are swallowed, stomach complaints may result.



## Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: MARABU-3D LINER

Status: 01.12.2007

Product no.: 1803xx6xx

Version : 1 / GB

Date of printing : 18.12.2007

### Other information

There are no data available on the preparation itself.

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EEC).

### 12.) Ecological information

#### General information / ecology

There are no data available on the preparation itself.

### 13.) Disposal considerations

#### Product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

#### Uncontaminated packaging

Uncleaned packaging must be disposed of in the same manner as the medium.

Completely emptied containers can be used in the recycling chain with glass or tinplate.

### 14.) Transport information

#### Land transport ADR/RID

Label -, -, -  
Remarks non-dangerous goods

#### Marine transport IMDG/GGVSee

Class -  
Packing group -  
Label -, -, -  
Remarks The product does not constitute a hazardous substance in sea transport.

#### Air transport ICAO/IATA

Class -  
Packing group -  
UN number -  
Label -, -, -  
Remarks The product does not constitute a hazardous substance in air transport.

### 15.) Regulatory information

#### Labelling in accordance with EC directives

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

### 16.) Other information

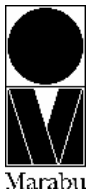
#### Other information

According to their chemical structure, the applied raw materials do not contain any antimony, arsenic, soluble barium, lead, cadmium, chromium, mercury and selenium.

Product conforms therefore to DIN EN 71, part 3.

#### ETHANE-1,2-DIOL

22 Harmful if swallowed.



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**Department issuing safety data sheet**

Product safety.

**Contact person**

Dipl.-Chem. G. Heller or Dipl.-Ing. U. Voetter.

The instructions are based on today's information and knowledge. The safety data sheet describes products in relation to safety requirements. These instructions do not assure application technological properties of the product.