

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

Identification of the substance or preparation

Trade name

MARABU-AQUA-LINOPRINTING COLOUR

Use of the substance/preparation

Printing ink

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

3.) Composition / information on ingredients

Chemical characterization

Printing ink based on synthetic resins and on water

Hazardous ingredients

PROPANE-1,2-DIOL

CAS no. 57-55-6

EINECS no. 200-338-0

Concentration >= 5 < 10 %-b.w.

GLYCEROL

CAS no. 56-81-5

EINECS no. 200-289-5

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

EPSILON-CAPROLACTAM

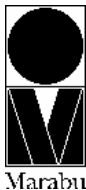
CAS no. 105-60-2

EINECS no. 203-313-2

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

Classification Xn;R20/22

Xi;R36/37/38



4-CHLORO-M-CRESOL

CAS no.	59-50-7	
EINECS no.	200-431-6	
Concentration	< 0,5	%-b.w.
Classification	Xn;R21/22	
	Xi;R41	
	R43	
	N;R50	

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

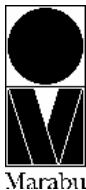
Advice on protection against fire and explosion

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

EPSILON-CAPROLACTAM

WEL (EH40/2005)	Dust only		
Value		1	mg/m ³
STEL		3	mg/m ³
2000/39/EC	vapour and dust		
Value		10	mg/m ³
STEL		40	mg/m ³
WEL (EH40/2005)	dust and vapour		
Value		10	mg/m ³
STEL		20	mg/m ³

GLYCEROL

WEL (EH40/2005)	mist		
Value		10	mg/m ³

PROPANE-1,2-DIOL

WEL (EH40/2005)	total vapour and particulates		
Value	150 ml/m ³	474	mg/m ³

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

9.) Physical and chemical properties

General information

Form	pasty
Colour	coloured
Odour	neutral

Important health, safety and environmental information

Changes in physical state

Type	Boiling point
Value	100

Explosion limits

Remarks	not applicable
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Vapour pressure

Value	23		hPa
Reference temperature	20	°C	
Method	water		

Density

Value	1,5	- 1,6	g/cm ³
Reference temperature	20	°C	

pH value

Value	8,5	- 9,5	
Reference temperature	20	°C	

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. Potentially serious effects, due to the residual content of solvent: Splashes in the eyes may cause mild irritation and cause the eyelids to stick together. If swallowed, stomach complaints and irritation of the digestive organs may result.

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

Ecotoxic effects

Behaviour in sewers [waste treatment plants]

Remarks: There are no data available on the preparation itself.

General information / ecology

inapplicable

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.

Untampered 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

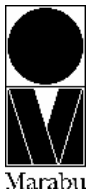
Label: -, -, -
Remarks: non-dangerous goods

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.



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

Trade name: MARABU-AQUA-LINOPRINTING COLOUR

Status: 01.12.2007

Product no.: 1510

Version : 1 / GB

Date of printing : 18.12.2007

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).

contains

4-CHLORO-M-CRESOL; May produce an allergic reaction.

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.

EPSILON-CAPROLACTAM

20/22

Harmful by inhalation and if swallowed.

36/37/38

Irritating to eyes, respiratory system and skin.

4-CHLORO-M-CRESOL

21/22

Harmful in contact with skin and if swallowed.

41

Risk of serious damage to eyes.

43

May cause sensitization by skin contact.

50

Very toxic to aquatic organisms.

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.