

# EC safety data sheet (91/155 EEC)

Trade name: MATT VARNISH

Status: 01.12.02

Product no.: 1108xx000

Version : 1 / GB

Date of printing : 18.02.2003

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

### Product details

#### Trade name

MATT VARNISH

### Identification of the manufacturer / supplier

#### Address

Marabuwerke GmbH & Co. KG  
Asperger Straße 4  
D-71732 Tamm

Telephone no. 07141/691-0

Fax no. 07141/691-235

#### Information provided by / telephone

Product safety +49 7141/691-116 or 232

#### Emergency telephone number

Product safety +49 7141/691-116 or 232

#### Use

Hobby varnish

## 2.) Composition / information on ingredients

### Chemical characterization

Hobby varnish based on acrylic resins and on solvents

### Hazardous ingredients

#### NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY

CAS no. 64742-82-1

EINECS no. 265-185-4

Concentration >= 60 < 65 %-b.w.

Classification Xn;R65  
N;R51/53  
R10

## 3.) Hazards possibilities

### Hazard symbols

N Dangerous for the environment

### R phrases

10 Flammable.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

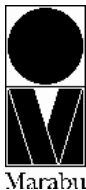
### Particular information pertaining specific risk for human / environment

The product is water polluting.

## 4.) First aid measures

### General information

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Unconsciousness: lateral position - call a physician.



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### After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a physician.

### 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.). Call a physician.

### After ingestion

Call a doctor. Keep at rest. Do not induce vomiting.

## 5.) Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide, foam, sand, dry extinguishing agent.

### Extinguishing media that must not be used for safety reasons

Water jet should not be used because water is not mixable with a lot of organic solvents and such solvents will spread on the water surface.

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

In case of fire, dangerous smoke gases such as carbon dioxide, carbon monoxide and soot can be produced. Therefore, take suitable precautionary measures for fire fighting. Residues remaining after a fire have to be disposed of appropriately.

### Special protective equipment for fire-fighting

Breathing apparatus with an independent source of air may be required.

### Other information

Cool endangered containers with water in case of fire.

## 6.) Accidental release measures

### Personal precautions

Keep away from sources of ignition. Provide for good ventilation. Do not breathe vapours. Refer to protective measures listed in sections 7 and 8.

### Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### Methods for cleaning up/taking up

Remove by liquid absorbing material (e.g. kieselguhr) and process according to waste regulations. Clean preferably with a detergent; avoid use of solvents.

## 7.) Handling and storage

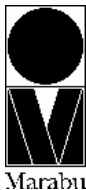
### Handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit. Do not leave containers open. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. When using do not eat, drink or smoke. Comply with the health and safety at work laws.

#### Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used.



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## Classification of fires

B (Combustible liquid substances)

## Temperature class

T3

## Storage

### Requirements for storage rooms and vessels

Recommended storage temperature: 15-20°C. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Hints on storage assembly

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

### Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from sources of ignition. Keep containers dry and cool.

## 8.) Exposure controls / personal protection

### Additional hints on technical system design.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

### Ingredients with occupational exposure limits to be monitored

#### 1,2,4-TRIMETHYLBENZENE

2000/39/EC

Value	20	ml/m <sup>3</sup>	100	mg/m <sup>3</sup>
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OES/EH40

Value	25	ml/m <sup>3</sup>	125	mg/m <sup>3</sup>
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#### AROMATICS

OES/EH40

Value	500	mg/m <sup>3</sup>
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#### CYCLOALKANES, =C7

OES/EH40

Value	800	mg/m <sup>3</sup>
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#### NORMAL AND BRANCHED CHAIN ALKANES, >=C7

OES/EH40

Value	1200	mg/m <sup>3</sup>
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## Personal protective equipment

### Respiratory protection

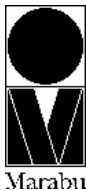
Breathing protection equipment required in inadequately ventilated places and during spraying.

Respiratory filter (gas) : A

Respiratory filter (part): P2

### Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374. For short term contact (e.g. splash protection) as well as long term contact (e.g. cleaning activities) with the constituents of inks and usual cleaning agents an LLDPE glove of 0.06 mm thickness is recommended. According to information by the manufacturer the average breakthrough times for usual constituents exceed 480 min. We recommend to set up a hand protection plan, which is adapted to the needs of the local business. Further information is provided in the publications of Bundesverband Handschutz (nos. 6 and 9) and BG Druck und Papierverarbeitung (528.1, 528.2, 531.X).



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### Eye protection

Use safety glasses.

### Skin protection

Personal should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact. Use re-greasing skin cream.

## 9.) Physical and chemical properties

### Appearance

Form	liquid
Colour	whitish transpar.
Odour	mild

### Safety data

#### Changes in physical state

Type	Boiling point (initial)	
Value	153	°C

#### Flash point

Value	45	°C
Method	ASTM D 6450 (CCCFP)	

#### Ignition temperature

Value	235	°C
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#### Explosion limits

Upper explosion limit	6,4	% vol
Lower explosion limit	0,6	% vol

#### Vapour pressure

Value	3	hPa
Reference temperature	20	°C

#### Density

Value	0,9	g/cm <sup>3</sup>
Reference temperature	20	°C

#### Viscosity

Type	Flow time	
Value	55	- 80 sec
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

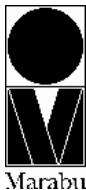
Stable under recommended storage and handling conditions (See section 7).

### Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### Hazardous decomposition products

When exposed to high temperatures, dangerous decomposition products such as carbon dioxide, carbon monoxide and soot can be produced.



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### 11.) Toxicological information

#### Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause symptoms like described above by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause pronounced burning pains. 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

#### General information / ecology

There are no data available on the preparation itself. Do not empty into waters or drains

### 13.) Disposal considerations

#### Product

Dispose of or incinerate in accordance with corresponding regulations.  
Code of waste pursuant to European Council Directive on waste: 080111(Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesive, sealants and printing inks - wastes from MFSU and removal of paint and varnish - waste paint and varnish containing organic solvents or other dangerous substances).

#### Uncleaned 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.

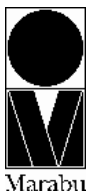
### 14.) Transport information

#### Land transport ADR/RID

Class	3
Packaging group	III
Hazard id. no.	30
Label	3
UN number	1263
Technical name	Paint

#### Marine transport IMDG/GGVSee

Class	3
Packaging group	III
UN number	1263
Proper shipping name	Paint
EmS	3-05
MARPOL	MP
Label	3



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### Air transport ICAO/IATA

Class	3
Packaging group	III
UN number	1263
Proper shipping name	Paint
Label	3, -, -

## 15.) Regulatory information

### Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC directives/GefStoff V

### Hazard symbols

N      Dangerous for the  
         environment

### R phrases

10	Flammable.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S phrases

2	Keep out of the reach of children.
29	Do not empty into drains.
62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 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.

### NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY

10	Flammable.
65	Harmful: may cause lung damage if swallowed.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Department issuing safety data sheet

Laboratory/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.