1.) Identification of the substance/preparation and company

Product details

Trade name

MARABU-EASY MARBLE

Identification of the manufacturer / supplier

Address

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

Telephone no. (++49)-7141/691-0

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

Information provided by / telephone

Product safety +49 7141/691-116 or 232

Emergency telephone number

++49-621-60-43333

Use

Paint

2.) Composition / information on ingredients

Chemical characterization

Paint based on alkyd resins and on solvents

Hazardous ingredients

1-METHOXY-2-PROPANOL

CAS no.	107-98-2			
EINECS no.	203-539-1			
Concentration	>= 30	<	45	%-b.w.
Classification	R10			

2-METHOXY-1-METHYLETHYL ACETATE

CAS no.	108-65-6			
EINECS no.	203-603-9			
Concentration	>= 10	<	20	%-b.w.
Classification	R10 Xi;R36			

NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY

CAS no.	64742-82-1			
EINECS no.	265-185-4			
Concentration	>= 10	<	15	%-b.w.
Classification	Xn;R65 N;R51/53 R10 R66 R67			

3.) Hazards possibilities

R phrases

10 Flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards to man and the 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.

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 physician. 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, soot, nitrogen oxides, metal oxides and halogenated hydrogens 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.

Classification of fires

B (Combustible liquid substances)

Temperature class

T3

Storage

Requirements for storage rooms and vessels

Recommended storage temperature: 15-20℃. Keep contai ner 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-METHOXY-2-PROPANOL

2000/39/EC				
Value	100	ml/m³	375	mg/m³
STEL	150	ml/m³	568	mg/m³
Skin resorption / sensibilisation	skin			
WEL (EH40/2005)				
Value	100	ml/m³	375	mg/m³
STEL	150	ml/m³	560	mg/m³
Skin resorption / sensibilisation	Sk			

2-METHOXY-1-METHYLETHYL ACETATE

2000/39/EC				
Value	50	ml/m³	275	mg/m³
STEL	100	ml/m³	550	mg/m³
Skin resorption / sensibilisation	skin			
WEL (EH40/2005)				
Value	50	ml/m³	274	mg/m³
STEL	100	ml/m³	548	mg/m³
Skin resorption / sensibilisation	Sk			

AROMATICS

WEL (EH40/2005)		
Value	500	mg/m³

CYCLOALKANES, >=C7

WEL (EH40/2005)		
Value	800	mg/m³

NORMAL AND BRANCHED CHAIN ALKANES, >=C7

WEL (EH40/2005)		
Value	1200	mg/m³

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.

Recommendation for protection against components normally found in the products:

For short-term contact (e.g. spray protection) as well as for long-term contact (e.g. cleaning purposes):

Suitable material: LLDPE
Material thickness: 0.06 mm
Penetration time: >480 min.

Protective gloves must always be tested and confirmed with regard to suitability to each specific working environment (e.g. mechanical resistance, product compatibility, antistatic).

Follow the instructions and information from the glove manufacturer in reference to use, storage, care, and frequency of glove exchange.

Protective gloves should be immediately replaced upon being damaged or when showing first signs of wear. Preventive skin protection (skin protective cream) is recommended. Contaminated skin areas should immediately be washed (follow data sheet for skin protection M 042).

Working procedures are to be so arranged that the permanent wearing of gloves will not be necessary.

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).

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.

General protective and hygiene measures

The usual precautionary measures for the handling of chemicals have to be observed.

9.) Physical and chemical properties

Appearance

Form	liquid
Colour	coloured
Odour	characteristic

Safety data

Changes in physical state

Type	Starts to boil	
Value	120	°C

Flash point

Value	35	°C
Method	ASTM D 6450 (CCCFP)	

Ignition temperature

Value	235	°C

Explosion limits

Upper explosion limit	13,8	% vol
Lower explosion limit	0,6	% vol

Vapour pressure

Value	8	hPa
Reference temperature	20 °C	

Density

Value	0,9 - 1,1	g/cm³
Reference temperature	20 °C	

Viscosity

Type	Flow time	
Value	14 - 20	sec
Method	DIN-cup 4 mm	
Reference temperature	20 °C	

Solubility in water

Remarks	parts of solvents

pH value

Remarks	not applicable

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, soot, nitrogen oxides, metal oxides and halogenated hydrocarbons can be produced.

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).

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

Class	3
Packing group	III
Hazard id. no.	30
Label	3, -, -
UN number	1263
Technical name	PAINT

Marine transport IMDG/GGVSee

Class	3
Packing group	III
UN number	1263
Proper shipping name	PAINT
EmS	F-E,S-E
MARPOL	MP
Label	3, -, -

Air transport ICAO/IATA

Class	3
Packing 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

R phrases

10	Flammable.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

20/21	When using do not eat, drink or smoke.
29	Do not empty into drains.
51	Use only in well-ventilated areas.

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.

1-METHOXY-2-PROPANOL

10	Flammable.

2-METHOXY-1-METHYLETHYL ACETATE

10	Flammable.
36	Irritating to eyes.

NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY

10	Flammable.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

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.