



EC safety data sheet (91/155 EEC)

Trade name: OPAQUING PASTE OP 170

Status: 15.07.02

Product no.: 3310xx170

Version : 1 / GB

Date of printing : 02.02.2003

1.) Identification of the substance/preparation and company

Product details

Trade name

OPAQUING PASTE OP 170

Identification of the manufacturer / supplier

Address

Marabuwerte 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

Printing auxiliary

2.) Composition / information on ingredients

Chemical characterization

Solvent based printing auxiliary

Hazardous ingredients

BUTYLGLYCOLATE

CAS no. 7397-62-8
EINECS no. 230-991-7
Concentration ≥ 5 < 10 %-b.w.
Classification Xi;R41

2-METHOXY-1-METHYLETHYL ACETATE

CAS no. 108-65-6
EINECS no. 203-603-9
Concentration ≥ 1 < 5 %-b.w.
Classification R10
Xi;R36

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

CAS no. 64742-95-6
EINECS no. 265-199-0
Concentration ≥ 1 < 5 %-b.w.
Classification Xn;R65
Xi;R37
N;R51/53
R10
R66
R67

POLYESTER

Concentration ≥ 1 < 5 %-b.w.
Classification Xi;R36



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3.) Hazards possibilities

Hazard symbols

Xi Irritant

R phrases

36 Irritating to eyes.

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.

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.) Firefighting measures

Suitable extinguishing media

Carbon dioxide, foam, sand, dry extinguishing agent.

Extinguishing media that must not be used for safety reasons

Waterjet 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 firefighting

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.



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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

T2

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

2-METHOXY-1-METHYLETHYL ACETATE

2000/39/EC

Value	50	ml/m ³	275	mg/m ³
STEL	100	ml/m ³	550	mg/m ³

Skin resorption /
sensibilisation skin

AROMATICS

OES/EH40

Value	500	mg/m ³
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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



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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).

Eye protection

Use safety glasses.

Skin protection

Personal should wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. 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	Pasty
Colour	white
Odour	characteristic

Safety data

Changes in physical state

Type	Boiling point (initial)	
Value	186	°C

Flash point

Value	72	°C
Method	ASTM D 6450 (CCCFP)	

Ignition temperature

Value	405	°C
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Explosion limits

Upper explosion limit		% vol
Lower explosion limit	1,3	% vol

Vapour pressure

Value	1,3	hPa
Reference temperature	20	°C

Density

Value	2,275	g/cm ³
Reference temperature	20	°C

Viscosity

Type	Flow time	
Value	> 150	sec
Method	DIN-cup 4 mm	
Reference temperature	20	°C

Solubility in water

Remarks	partly mixable
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pH value

Remarks	inapplicable
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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.

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. Vapours and the liquid itself will irritate the eyes. 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 (88/379/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: 080312 (Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks - wastes from MFSU of printing inks - waste ink containing dangerous substances).

Uncleaned packaging

Dispose of only completely emptied containers! Code of waste pursuant on European Council Directive on waste: 150104 (Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified - packaging (including separately collected municipal packaging waste) - metallic packaging).

Marine transport IMDG/GGVSee

Remarks The product does not constitute a hazardous substance in sea transport.



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14.) Transport information

Land transport ADR/RID

Remarks non-dangerous goods

Air transport ICAO/IATA

Remarks The product does not constitute a hazardous substance in air transport.

15.) Regulatory information

Labelling in accordance with EC directives

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

Hazard symbols

Xi Irritant

R phrases

36 Irritating to eyes.

S phrases

20/21 When using do not eat, drink or smoke.
25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.

BUTYLGLYCOLATE

41 Risk of serious damage to eyes.

2-METHOXY-1-METHYLETHYL ACETATE

10 Flammable.
36 Irritating to eyes.

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

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

POLYESTER

36 Irritating to eyes.

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.