



EC safety data sheet

Trade name: SPECIAL GLASS INK GL

Status: 01.04.01

Product no.: 3321

Version : 1 / GB

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1.) Identification of the substance/preparation and company

Product details

Trade name

SPECIAL GLASS INK GL

Identification of the manufacturer / supplier

Address

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

Telephone no. +49 7141/691-0

Fax no. +49 7141/691-235

Information provided by / telephone

product safety/+49 7141/691-116 or 232

Emergency telephone number

product safety/+49 7141/691-116 or 232

2.) Composition / information on ingredients

Chemical characterization

Screen printing ink based on epoxy resins and on solvents

Hazardous ingredients

4-HYDROXY-4-METHYLPENTAN-2-ONE

CAS no.	123-42-2			
Concentration	>= 5	< 15		%-b.w.
Hazard symbols	Xi	R phrases		36

CYCLOHEXANONE

CAS no.	108-94-1			
Concentration	>= 5	< 10		%-b.w.
Hazard symbols	Xn	R phrases		10, 20

BUTYLGLYCOLATE

CAS no.	7397-62-8			
Concentration	>= 5	< 10		%-b.w.
Hazard symbols	Xi	R phrases		41

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.

CAS no.	64742-94-5			
Concentration	>= 1	< 10		%-b.w.
Hazard symbols	Xn	R phrases		65

Ink shades 192 and 193 contain additionally

2-METHOXY-1-METHYLETHYL ACETATE

CAS no.	108-65-6			
Concentration	>= 5	< 10		%-b.w.
Hazard symbols	Xi	R phrases		10, 36

Ink shades 191, 192 and 193 contain additionally

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

CAS no.	64742-95-6			
Concentration	>= 1	< 5		%-b.w.
Hazard symbols	N, Xn	R phrases		51/53, 66, 67, 65, 10, 37



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NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY

CAS no. 64742-82-1

Concentration \geq 1 < 5 %-b.w.

Hazard symbols N, Xn R phrases 10, 65, 51/53

3.) Hazards possibilities

Hazard symbols

Xi Irritant

R phrases

10 Flammable.

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, 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 firefighting

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

Other information (chapter 5.)

Cool endangered containers with water in case of fire.



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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)

Ignition group

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.



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Ingredients with occupational exposure limits to be monitored

4-HYDROXY-4-METHYLPENTAN-2-ONE

CAS no. 123-42-2
EINECS no. 204-626-7

OES/EH40

LTEL 50 ml/m³ 241 mg/m³

STEL 75 ml/m³ 362 mg/m³

CYCLOHEXANONE

CAS no. 108-94-1
EINECS no. 203-631-1

OES/EH40

LTEL 25 ml/m³ 102 mg/m³

STEL 100 ml/m³ 408 mg/m³

AROMATICS

OES/EH40

LTEL 500 mg/m³

Ink shades 191, 192 and 193 contain additionally NORMAL AND BRANCHED CHAIN ALKANES, =C7

OES/EH40

LTEL 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

Use protective gloves.

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 see trade name
Odour characteristic

Safety data

Changes in physical state

Type Boiling point (initial)
Value 150 °C

Flash point

Value 50 °C
Method ASTM D 6450 (CCCFP)



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Ignition temperature

Value 200 °C

Explosion limits

Upper explosion limit 9,4 % vol

Lower explosion limit 0,6 % vol

Vapour pressure

Value 3 hPa

Reference temperature 20 °C

Density

Value 1,0 - 1,6 g/cm³

Reference temperature 20 °C

Viscosity

Type Flow time
Value > 150 sec

Method DIN-cup 4 mm

Reference temperature 20 °C

Solubility in water

Remarks parts of solvents

Other information (chapter 9.)

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.

Vapours and the liquid itself will irritate the eyes.

If swallowed, stomach complaints and irritation of the digestive organs may result.

Other information (chapter 11.)

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).



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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: 080302 (Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesive, sealants and printing inks - wastes from MFSU of printing inks - waste ink free of halogenated solvents).

Uncleaned packaging

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

14.) Transport information

Land transport ADR/RID

Class 3* 31 c
Remarks Containers with a capacity <= 450 ltrs are subject only to the regulations of Rn. 2314 (remarks under E of Rn. 2301).

Marine transport IMDG/GGVSee

Class 3.3
Packaging group III
UN number 1263
Proper shipping name Paint
EmS 3-05
MFAG 310
MARPOL ---
Label 3

Air transport ICAO/IATA

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

15.) Regulatory information

Hazard symbols

Xi Irritant

R phrases

10 Flammable.
36 Irritating to eyes.



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S phrases

20/21

When using do not eat, drink or smoke.

24/25

Avoid contact with skin and 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.

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.

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