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<b>-9348</b>

**Safety Data Sheet**

according to 1907/2006/EC, Article 31

Page 1/4  
 Printing date: 13.09.2010  
 Revision: 13.09.2010

**1 Identification of the substance/preparation and of the company/undertaking**

- **Product details** MONTANA BLACK DYE INK Marker / Refill 200 ml
- **Trade name:** Paint Marker Ink silver D2
- **Registration number**  
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- **Application of the substance / the preparation**  
Paint Marker Ink for Writing Instruments
- **Manufacturer/Supplier:**  
Georg Linz GmbH & Co.KG  
Rothensteig 17  
D-90408 Nurnberg  
Phone + 49(0)911/327266  
Fax + 49(0)911/325114  
info@linz-pen.de
- **Further information obtainable from:**  
as above
- **Information in case of emergency:**  
as above

**2 Hazards identification**

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Has a narcotizing effect.  
R 10 Flammable.  
R 67 Vapours may cause drowsiness and dizziness.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**3 Composition/information on ingredients**

- **Chemical characterization**  
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 107-98-2	1-Methoxy-2-propanol	R 10-67	50-100*
EINECS: 203-539-1			

- **Additional information:**  
For the wording of the listed risk phrases refer to section 16.

**4 First-aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.

(Contd. on page 2)  
 EU

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Page 2/4  
Printing date: 13.09.2011  
Revision: 13.09.2011

Trade name: Paint Marker Ink silver D2

- After swallowing: If symptoms persist consult doctor.

(Contd. of page 1)

**5 Fire-fighting measures**

- Suitable extinguishing agents: CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:  
Water  
Water with full jet
- Protective equipment: No special measures required.

**6 Accidental release measures**

- Person-related safety precautions:  
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:  
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Do not flush with water or aqueous cleansing agents

**7 Handling and storage**

- Handling:  
• Information for safe handling: Not applicable
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- Storage:  
• Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

**8 Exposure controls/personal protection**

- Additional information about design of technical facilities:  
No further data; see item 7.

• Ingredients with limit values that require monitoring at the workplace:  
107-98-2 1-Methoxy-2-propanol (50-100%)

IOELV	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm
	Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
	Skin

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:  
Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- Protection of hands:



Protective gloves

(Contd. on page 3)  
EU

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Page 3/6  
Printing date: 13.09.2010  
Revision: 13.09.2010

Trade name: Paint Marker Ink silver D2

(Contd. of page 2)  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

**9 Physical and chemical properties**

**General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

<b>Important information on protection of health and environment, and on safety.</b>	- Not applicable Not applicable
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**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	120°C

<b>Flash point:</b>	31°C
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<b>Ignition temperature:</b>	287°C
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<b>Self-igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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<b>Explosion limits:</b>	
<b>Lower:</b>	1,7 Vol %
<b>Upper:</b>	11,5 Vol %

<b>Vapour pressure at 20°C:</b>	12 hPa
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<b>Density at 20°C:</b>	1,04 g/cm³
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<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
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<b>Viscosity:</b>	
<b>Dynamic at 20°C:</b>	20 mPas

(Contd. on page 4)  
EU

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Page 4/6  
Printing date: 13.09.2010  
Revision: 13.09.2010

Trade name: Paint Marker Ink silver D2

(Contd. of page 3)

- Solvent content:	
Organic solvents:	71,5 %
Solids content:	16,0 %

**10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Materials to be avoided:
- Dangerous reactions: No dangerous reactions known.
- Dangerous decomposition products: No dangerous decomposition products known.

**11 Toxicological information**

- Acute toxicity:
- Primary irritant effect:  
on the skin: No irritant effect.  
on the eye: No irritating effect.
- Sensitisation: No sensitizing effects known.

**12 Ecological information**

- Additional ecological information:
- General notes:  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**13 Disposal considerations**

- Product:
- Recommendation:  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 13*	sludges from paint or varnish containing organic solvents or other dangerous substances

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

EU  
(Contd. on page 5)

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Page 5/6  
Printing date: 11.09.2010  
Revision: 11.09.2010

Trade name: Paint Marker Ink silver D2

(Contd. of page 4)

**14 Transport information**

• Land transport ADR/RID (cross-border)



- ADR/RID class: 3 (F1) Flammable liquids.
- Danger code (Komler): 30
- UN-Number: 1263
- Packaging group: III
- Hazard label: 3
- Description of goods: 1263 PAINT RELATED MATERIAL
- Limited quantities (LQ) LQ7
- Tunnel restriction code D/E

• Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E, S-E
- Marine pollutant: No
- Proper shipping name: PAINT RELATED MATERIAL

• Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Proper shipping name: PAINT RELATED MATERIAL

**15 Regulatory information**

- Labelling according to EU guidelines:  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Risk phrases:  
10 Flammable.  
67 Vapours may cause drowsiness and dizziness.
- Safety phrases:  
24 Avoid contact with skin.  
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
60 This material and its container must be disposed of as hazardous waste.

(Contd. on page 6)  
EU

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Page 6/6  
Printing date: 13.09.2010  
Revision: 13.09.2010

Trade name: Paint Marker Ink silver D2

(Contd. of page 5)

- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100

- Waterhazard class:  
Water hazard class 1 (Self-assessment): slightly hazardous for water.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases  
10 Flammable.  
67 Vapours may cause drowsiness and dizziness.

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