



**Safety data sheet**

according to 1907/2006/EC, Article 31

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

- **Product identifier**
- **Trade name:** MA 4500 blue - blau
- **Registration number**  
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- **Relevant identified uses of the substance or mixture and uses advised against**  
Currently no such applications are identified
- **Application of the substance / the preparation** alcohol based permanent marking ink
- **Details of the supplier of the safety data sheet**  
**Manufacturer/Supplier:**  
School Specialty  
W6316 Design Drive Greenville, WI 54942  
Ph#1-888-388-3224  
Fax#1-888-388-6344  
Email: orders@schoolspecialty.com  
Website: www.schoolspecialty.com

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xi; Irritant  
R41: Risk of serious damage to eyes.  
R10-67: Flammable. Vapours may cause drowsiness and dizziness.
- **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.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**  
 Xi Irritant
- **Risk phrases:**  
10 Flammable.  
41 Risk of serious damage to eyes.  
67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**  
2 Keep out of the reach of children.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
46 If swallowed, seek medical advice immediately and show this container or label.  
56 Dispose of this material and its container to hazardous or special waste collection point.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**  
Mixture of the following substances, containing non-hazardous substances and colouring agents.

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- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

|                                      |  |         |
|--------------------------------------|--|---------|
| CAS: 71-23-8<br>EINECS: 200-746-9    | propan-1-ol<br>☒ Xi R41; ☒ F R11<br>R67<br>☒ Flam. Liq. 2, H225; ☒ Eye Dam. 1, H318; ☒ STOT SE 3, H336 | 50-100% |
| CAS: 68411-04-1<br>EINECS: 270-096-9 | C. I. Solvent Blue 51<br>R52/53<br>Aquatic Chronic 3, H412   | ≤ 2,5%  |
| CAS: 12645-31-7<br>EINECS: 235-741-0 | Phosphoric acid mono-bis-(2-ethylhexyl)-ester<br>☒ C R34<br>☒ Skin Corr. 1C, H314                      | ≤ 2,5%  |
| CAS: 6786-83-0<br>EINECS: 229-851-8  | C. I. Solvent Blue 4<br>☒ Xn R20/22<br>☒ Acute Tox. 4, H302; Acute Tox. 4, H332                        | ≤ 2,5%  |

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

**4 First aid measures**

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Firefighting measures**

- **Extinguishing media**
- **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
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **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.

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- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

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**

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Fluid

Colour:

According to product specification

- **Odour:**

Product specific

- **Odour threshold:**

Not determined.

- **Important information on protection of health and environment, and on safety.**

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- **pH-value:**

Not determined.

- **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

96°C

- **Flash point:**

23°C

- **Flammability (solid, gaseous):**

Not applicable.

- **Ignition temperature:**

360°C

- **Decomposition temperature:**

Not determined.

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|   |   |
|---|---|
| · <b>Self-igniting:</b>                             | Product is not selfigniting.  |
| · <b>Danger of explosion:</b>                       | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                          |   |
| Lower:  | 2,1 Vol %   |
| Upper:  | 13,5 Vol %  |
| · <b>Vapour pressure at 20°C:</b>                   | 19 hPa  |
| · <b>Density at 20°C:</b>                           | 0,84 g/cm <sup>3</sup>  |
| · <b>Relative density</b>                           | Not determined.   |
| · <b>Vapour density</b>                             | Not determined.   |
| · <b>Evaporation rate</b>                           | Not determined.   |
| · <b>Solubility in / Miscibility with water:</b>    | Not miscible or difficult to mix.   |
| · <b>Segregation coefficient (n-octanol/water):</b> | Not determined.   |
| · <b>Viscosity:</b>                                 |   |
| Dynamic at 20°C:                                    | 4 mPas  |
| Kinematic:  | Not determined.   |
| · <b>Solvent content:</b>                           |   |
| Organic solvents:                                   | 88,3 %  |
| Solids content:                                     | 9,2 %   |
| · <b>Other information</b>                          | No further relevant information available.  |

**10 Stability and reactivity**

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

71-23-8 propan-1-ol

|            |          |                  |
|------------|----------|------------------|
| Oral       | LD50     | 8000 mg/kg (rat) |
| Dermal     | LD50     | 4000 mg/kg (rab) |
| Inhalative | LC50/4 h | 9,8 mg/l (rat)   |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

**12 Ecological information**

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **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.

**14 Transport information**• **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Hazard label** 3
- **UN proper shipping name:** 1263 PAINT
- **Limited quantities (LQ)** 5L
- **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

• **Air transport ICAO-TI and IATA-DGR:**

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

- **Special precautions for user** Warning: Flammable liquids.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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**15 Regulatory information**

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *National regulations:*
- *Technical instructions (air):*

| Class | Share in % |
|-------|------------|
| NK    | 50-100     |

- **Waterhazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

**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 phrases**

- H225 *Highly flammable liquid and vapour.*
- H302 *Harmful if swallowed.*
- H314 *Causes severe skin burns and eye damage.*
- H318 *Causes serious eye damage.*
- H332 *Harmful if inhaled.*
- H336 *May cause drowsiness or dizziness.*
- H412 *Harmful to aquatic life with long lasting effects.*
- R11 *Highly flammable.*
- R20/22 *Harmful by inhalation and if swallowed.*
- R34 *Causes burns.*
- R41 *Risk of serious damage to eyes.*
- R52/53 *Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R67 *Vapours may cause drowsiness and dizziness.*

- **\* Data compared to the previous version altered.**

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