

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

- **Product details**
- **Trade name:** MA 2010 black / schwarz Speedflow Inks
- **Registration number**  
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- **Application of the substance / the preparation**  
alcohol based permanent marking ink  
fibrepren concentrate

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## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  Xn; Harmful  
R68: Possible risk of irreversible effects.
  -  Xi; Irritant  
R36/38: Irritating to eyes and skin.
  -  F; Highly flammable  
R11: Highly flammable.
  -  N; Dangerous for the environment  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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.
- **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:**
  -    Xn Harmful  
F Highly flammable  
N Dangerous for the environment
- **Hazard-determining components of labelling:**  
C. I. Solvent Orange 3
- **Risk phrases:**  
11 Highly flammable.  
36/38 Irritating to eyes and skin.

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- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 68 Possible risk of irreversible effects.
- Safety phrases:**
- 2 Keep out of the reach of children.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 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.

### 3 Composition/information on ingredients

**Chemical characterization**

Mixture of the following substances, containing non-hazardous substances and colouring agents.

**Description:**

All ingredients of the ink MA 2010 black are pre-registered according to 1907/2006/EC (REACH). For pre-registration numbers refer to the list attached to his MSDS.

**Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol F R11	50-100%
CAS: 107-98-2 EINECS: 203-539-1	1-Methoxy-2-propanol R10-67	2,5-10%
CAS: 12645-31-7 EINECS: 235-741-0	Phosphoric acid mono-bis-(2-ethylhexyl)-ester C R34	2,5-10%
CAS: 101357-15-7 EINECS: 309-912-6	C.I. Solvent Black 7 Xn R20/21/22-48	2,5-10%
CAS: 84281-86-7 EINECS: 282-630-8	C. I. Solvent Violet 8 Xn R22; Xi R41	2,5-10%
CAS: 495-54-5 EINECS: 207-803-7	C. I. Solvent Orange 3 Xn R22-68; Xi R38; N R50/53 Muta. Cat. 3	2,5-10%

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

### 4 First aid measures

- After inhalation:**  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.
- After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** If symptoms persist consult doctor.

### 5 Firefighting measures

- Suitable extinguishing agents:** CO2, 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 product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

- **Handling:**
- **Information 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.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

## 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 (2,5-10%)

IOELV	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **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.

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· Eye protection:

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Tightly sealed goggles

## 9 Physical and chemical properties

· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Important information on protection of health and environment, and on safety.	
	-
	Not applicable
	Not applicable
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78 °C
· Flash point:	13 °C
· Ignition temperature:	287 °C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1,7 Vol %
Upper:	15,0 Vol %
· Vapour pressure at 20 °C:	59 hPa
· Density:	Not determined.
· Solubility in / Miscibility with water:	
	Not miscible or difficult to mix.
· pH-value at 20 °C:	5
· Viscosity:	
Dynamic at 20 °C:	4 mPas
· Solvent content:	
Organic solvents:	76,2 %
Solids content:	23,8 %

## 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:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **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:

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Irritant

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**12 Ecological information**

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms

**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 11*	waste paint and 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):** 33
- **UN-Number:** 1263
- **Packaging group:** II
- **Hazard label:** 3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1263 PAINT
- **Limited quantities (LQ):** LQ6
- **Tunnel restriction code:** D/E

• **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** Yes
- **Proper shipping name:** PAINT (C. I. Solvent Orange 3)

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- Remarks: 1263 Paint (dye-stuff C.I. Solvent Orange 3), Marine Pollutant
- Air transport ICAO-TI and IATA-DGR:



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

- Environmental hazards:  
Product contains environmentally hazardous substances: C. I. Solvent Orange 3

### 15 Regulatory information

- Chemical safety assessment A Chemical Safety Assessment has not been carried out.

- National regulations:

- Technical instructions (air):

Class	Share in %
NK	50-100

- Waterhazard class: Water hazard class 3 (Self-assessment): extremely 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 phrases

- R10 Flammable.
- R11 Highly flammable.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R48 Danger of serious damage to health by prolonged exposure.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 Vapours may cause drowsiness and dizziness.
- R68 Possible risk of irreversible effects.

- \* Data compared to the previous version altered.

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