

## 1 Identification of substance:

- **Product details:**
- **Trade name:** **MARKER, IDEAL MARK Black, Red, Blue, Green  
Jumbo Insta Markers  
Mark X Markers**
- **Application of the substance / the preparation** *Printing inks*
- **Manufacturer/Supplier:**  
*Diagraph MSP, an ITW Company  
Marking & Stenciling Products Division  
5307 Meadowland Parkway  
Marion, IL 62959*
- Customer Sales & Service:  
800-521-3047  
618-997-3321  
618-997-1766 Fax*
- **Further information obtainable from:** *msds@diagrammsp.com*
- **Information in case of emergency:**  
*Contact Infotrac: (800) 535 5053 (US only)  
International: +1 352 323 3500*

## 2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning to particular hazards to man 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.*  
*R 10 Flammable.*  
*R 20/21 Harmful by inhalation and in contact with skin.*  
*R 38 Irritating to skin.*
- **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**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

- **Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7	xylene (mix)	☒ Xn, ☒ Xi; R 10-20/21-38	60-80%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene	☒ Xn, ☒ F; R 11-20	5-20%

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

## 4 First aid measures

- **General information**  
*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

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# Safety Data Sheet

according to 1907/2006/EC, Article 31

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- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing**

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 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:** Mount respiratory protective device.

## 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.

Inform respective authorities in case of seepage into water course or sewage system.

- **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:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Maximum storage temperature:** 120 F (49 C)

- **Minimum storage temperature** 35 F (2 C)

## 8 Exposure controls and personal protection gear

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

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**· Ingredients with limit values that require monitoring at the workplace:**

**1330-20-7 xylene (mix)**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
 Sk; BMGV

**100-41-4 ethylbenzene**

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
 Long-term value: 441 mg/m<sup>3</sup>, 100 ppm

**· 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 skin.  
 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. 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**

**Form:** Liquid  
**Colour:** According to product specification  
**Odour:** Characteristic

**· Change in condition**

**Melting point/Melting range:** undetermined  
**Boiling point/Boiling range:** 136°C

**· Flash point:** 26°C

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· <b>Ignition temperature:</b>	430°C
· <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>	
<b>Lower:</b>	1.0 Vol %
<b>Upper:</b>	7.8 Vol %
· <b>Vapour pressure at 20°C:</b>	9.5 hPa
· <b>Density:</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	85.8 %
· <b>Solids content:</b>	12.5 %

## 10 Stability and reactivity

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

## 11 Toxicological information

- **Acute toxicity:**

· <b>LD/LC50 values relevant for classification:</b>		
<b>1330-20-7 xylene (mix)</b>		
Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4 h	6350 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No 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.  
Harmful  
Irritant

## 12 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.

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Danger to drinking water if even small quantities leak into the ground.

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## 13 Disposal considerations

- **Product:**
- **Recommendation**  
 Must not be disposed together with household garbage. Do not allow product to reach sewage system. Comply with all Federal, State, and Local regulations regarding disposal.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1210
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1210 PRINTING INK (not viscous)

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1210
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** PRINTING INK

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1210
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** PRINTING INK

GB

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## 15 Regulations

- **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*
  - **Hazard-determining components of labelling:**  
*xylene (mix)*
  - **Risk phrases:**  
*10 Flammable.*  
*20/21 Harmful by inhalation and in contact with skin.*  
*38 Irritating to skin.*
  - **Safety phrases:**  
*2 Keep out of the reach of children.*  
*9 Keep container in a well-ventilated place.*  
*13 Keep away from food, drink and animal feedingstuffs.*  
*29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.*  
*36/37 Wear suitable protective clothing and gloves.*  
*46 If swallowed, seek medical advice immediately and show this container or label.*
  - **National regulations**
  - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| NK    | 84.9       |
- **Waterhazard class:** *Water hazard class 2 (Self-assessment): 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.*  
*11 Highly flammable.*  
*20 Harmful by inhalation.*  
*20/21 Harmful by inhalation and in contact with skin.*  
*38 Irritating to skin.*
- **Department issuing MSDS:** *Chemistry*
- **File:** *514*
- **Revision Information (All previous revisions obsolete):**  
*07-13-10 Updated SDS to reflect new formulation of Black ink.*  
*04-13-10 Combined similar markers to one SDS*  
*12/4/2009 Updated MSDS due to change of concentraion of trace benzene from xylene verified by vendor*  
*08-20-2008 THIS REVISION: Updated to include all colors; Section 2: Updated Dangerous Components; Section 3: Updated Cancer Warning; Section 8: Update TLV; Section 9: Updated Solvent and Solids Content; Section 14: Updated Shipping information, Section 15: Updated Regulations, and Prop. 65*  
*06/06/2007 UPDATED COMPANY INFORMATION AND REVIEWED*  
*PREVIOUS REVISIONS: 03/28/2005 INITIAL RELEASE*