

# Safety data sheet

according to 91/155/EEC

**EK Ink Cartridge-P 1.0**

Date of printing: 17.05.06  
 Date of revision: 08.05.06

## 1. Name of product and firm

Product name	EK Ink Cartridge-P 1.0	Art.Nr.: 35 100 006
Firm	EK-TEAM Elektronik- u. Kunststofftechnik GmbH Schnackenburgallee 43-45 D-22525 Hamburg	Tel.: +49 - (0)40 - 853749-00 Fax: +49 - (0)40 - 853749-01
Contact person:	Rainer Utesch-Pruessner Eckhard Oesterreich	Tel.: +49 - (0)40 - 853749-05 +49 - (0)40 - 853749-06
Emergency information	Poison Center Göttingen	Tel.: +49 - (0)551 - 19240

## 2. Chemical characterization / information on ingredients

Chemical characterization: solution of synthetic resin and dyestuffs

Dangerous ingredients:	CARN	content / %	symbol	R-phrases
N,N-Dimethylformamid	68-12-2	ca. 30	T	61-20/21
Methylethylketon	78-93-3	ca. 20	F, Xi	11-36/37
Isophoron	78-59-1	ca. 15	Xi	36/37/38
Ethylamylketon	541-85-5	ca. 15	Xi	10-36/37

## 3. Possible hazards

Special risks concerning human beings and the environment: may cause harm to the unborn child / harmful by inhalation and in contact with skin / irritating to eyes, respiratory system and skin / highly flammable

## 4. First aid measures

General hints: -  
 Upon inhalation: on inhaling fumes take into fresh air  
 Upon skin contact: wash with water and soap immediately  
 Upon eye contact: rinse immediately under running water for at least 10 minutes  
 Upon ingestion: seek medical advice immediately

## 5. Fire-fighting measures

Suitable extinguishing media: water dust, powder, carbondioxide  
 Non-suitable media: water jet  
 Special hazards: -  
 Special protective clothing: wear artificial respiration equipment

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## 6. Measures in case of spillage

Protective measures,  
 personal: avoid contact with skin and eyes and inhaling fumes strictly  
 environmental: do not empty into drains and waters  
 Proceedings for  
 cleaning/taking up: bind by means of absorbent material and dispose appropriately

## 7. Handling and storage

Handling: make sure of sufficient ventilation, keep away from sources of ignition  
 Storage: keep container tightly closed and store in a cool place

## 8. Threshold limits and personal protective equipment

Hints for the arrangement of  
 technical equipment: -  
 Ingredients with  
 threshold limit values:

	CARN	TLV / mg/m <sup>3</sup>
N,N-Dimethylformamid	68-12-2	30
Methylethylketon	78-93-3	590
Isophoron	78-59-1	28

Personal protective equipment  
 General: pay attention to usual precautions of handling chemicals  
 Respiratory protection: do not inhale fumes  
 Hand protection: protective gloves if risk of skin contact is to be expected  
 Eye protection: protective goggles if risk of eye contact is to be expected  
 Body protection: -

## 9. Physical and chemical data

Form: liquid  
 Color: black  
 Odor: aromatic

Melting point: no data °C  
 Boiling point: ca. 80 °C literature  
 Flash point: 15 °C DIN EN 456  
 Ignition temperature: >250 °C literature  
 Danger of self-ignition: -  
 Fire-promoting properties: -  
 Explosion hazards: formation of explosive vapour/air-mixtures possible  
 Lower explosion limit: ca. 0,8 Vol% literature  
 Upper explosion limit: ca. 16 Vol% literature  
 Vapor pressure (20 °C): no data hPa  
 Density (20 °C): 0,93 g/ml  
 Solubility in water (20 °C): not miscible  
 pH-value (20 °C): n.a.  
 Viscosity (25 °C): no data mPas

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## 10. Stability und Reactivity

Conditions to avoid: avoid high temperatures  
 Materials to avoid: avoid contact with strong oxidizers  
 Dangerous  
 decomposition products: in case of fire nitrous fumes and hypochloric acid are produced

## 11. Information on toxicity

Acute toxicity  
 LD<sub>50</sub> (rat,oral,calculated): > 3200 mg/kg  
 Primary Irritation: irritating to skin and eyes  
 Sensibilisation: no data  
 Subacute/chronic toxicity: no data  
 Experience on human beings: contact with skin will cause swelling of the horn skin / inhaling fumes will cause indisposition

## 12. Information on ecology

Information on elimination: no data  
 Behaviour in the environment: no data  
 Ecotoxic effects: no data  
 Further information: -

## 13. Information on waste-treatment

Product  
 Recommendation: according to local regulations (combustion as special waste)  
 Dirty packaging  
 Recommendation: according to local regulations (deposit, combustion)

## 14. Information on transport

ADR/RID and GGVS/GGVE	name: flammable liquid	class: 3	UN No. 1993	PG II		
IMDG/GGVSee	name: flammable liquid	class: 3.2	UN No. 1993	PG.: II	EMS-No. F-S, S-E	marine pollutant: no
ICAO-TI and IATA/DGR	name: flammable liquid	class: 3	UN/ID-nr.: 1993	PG.: II	Passanger: 305	Cargo: 307

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## 15. Regulations

Labelling according to EEC-directives

Hazard-symbol: F, T  
Component(s): contains N,N-Dimethylformamide

R-phrases: 61 may cause harm to the unborn child  
11 highly flammable  
20/21 harmful by inhalation and contact with skin  
36/37/38 irritating to eyes, respiratory system and skin

S-phrases: 53 avoid exposure - obtain special instructions before use  
45 in case of accident or if you feel unwell, seek medical advice immediately  
2 keep out of reach of children  
16 keep away from sources of ignition - no smoking

National regulations: VbF-Class: A I (Germany)

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## 16. Further information

n.a. = not applicable      n.o. = not observed

The foregoing information reflects our current knowledge and does not have the purpose of guaranteeing product properties.