

## MATERIAL SAFETY DATA SHEET

MSDS No. EA-TMOP-001

Date Revised: 2/Feb/2006

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**1. PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME : Text Mark Opaque Marking Pen No. 250  
Color: Black  
MANUFACTURER'S NAME Teranishi Chemical Industry Co., Ltd.  
MANUFACTURER'S ADDRESS 13-11, Ikue 2-chome, Asahi-ku, Osaka 535-0004, Japan  
Telephone Number : 81-6-6928-3101  
Facsimile Number : 81-6-6928-3111

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

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CHEMICAL PRODUCT : Mixture (Oil based marking pen's ink)

COMPONENTS	CAS No.	ACGIH TLV-TWA	%BY WEIGHT
Butyl Acetate	123-86-4	150 PPM	75
Resin	Not open	-	20
Pigment (Carbon Black)	1333-86-4	-	5

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**3. HAZARDS IDENTIFICATION**

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Flammable liquid and acute toxicity substance.

**HEALTH HAZARDS**

EFFECT OF OVEREXPOSURE : It may be stimulated to the skin and membrane.

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**4. FIRST AID MEASURES**

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EYE CONTACT : Flush eye with plenty of water.  
SKIN CONTACT : Wash a skin with soap and water.  
INHALATION : Remove to fresh air. Keep at rest.  
INGESTION : If Swallowed, it is not made to vomit. Call a physician.

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**5. FIRE-FIGHTING MEASURES**

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FIRE-FIGHTING PROCEDURE : Extinguish with foam or dry Chemical.

EXTINGUISH MEDIA : Dry chemical powder, CO2 or chemical foam.

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**6. ACCIDENTAL RELEASE MEASURES**

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METHOD FOR CLEANING UP : Wipe up the spilt ink with absorbent material.

WASTE DISPOSAL METHOD : Burn the material which absorbed ink or dispose in accordance with local state and federal regulations.

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## 7. HANDLING AND STORAGE

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**HANDLING** : Avoid high temperature and fire. Keep cap on marker when not in use.  
When using for a long time, ventilate well. Do not shake marker.  
**STORAGE** : Store away from direct sunlight. Keep away from heat, spark and flame. Keep away from reach of children.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE LIMIT** : See section 2  
**VENTILATION** : When using for a long time, ventilate well.  
**PERSONAL PROTECTION EQUIPMENT**  
**EYE** : None under normal use conditions.  
**SKIN** : None under normal use conditions.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE** : Liquid  
**COLOR** : Black  
**ODOR** : Solvent odor  
**BOILING POINT** : 126 DegC  
**FLASH POINT** : About 28.2 DegC  
**VAPOR PRESSURE (20 DegC)** : 10mmHG  
**SOLUBILITY IN WATER** : Insoluble  
**SPECIFIC GRAVITY** : 0.93  
**PERCENT VOLATILE BY VOLUME** : 75%  
**VAPOR DENSITY (air=1)** : 4.0

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## 10. STABILITY AND REACTIVITY

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**STABILITY** : Stable.  
**HAZARDOUS POLYMERIZATION** : Will not occur.  
**HAZARDOUS DECOMPOSITION** : No  
**INCOMPATIBILITY** : None

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## 11. TOXICOLOGICAL INFORMATION

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**ACUTE**: Oral LD50 (rat) > 2g/kg body weight.  
British laboratory which conforms to GLP of OECD has certified that the TEXTMARK OPAQUE MARKING PEN No. 250 INK does not require to print symbol and risk phrase in accordance with EU labelling regulations as their testing result of LD50 (the acute oral median lethal dose).  
**CHRONIC**: The inks comply with the requirement of EN71. Part 3 (limits of 8 elements).

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## 12. ECOLOGICAL INFORMATION

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No data available

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**13. DISPOSAL CONSIDERATION**

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Dispose in accordance with local state and federal regulations.  
It does not throw away into fire, even if it use up .

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**14. TRANSPORT INFORMATION**

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UN NUMBER : 1210  
IMO CLASS : 3  
ICAO/IATA CLASS : 3  
PACKAGING GROUP : III

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**15. REGULATORY INFORMATION**

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CLASSIFICATION AND LABELLING  
CLASSIFICATION : Flammable  
Dangerous Substances Directive 67/548/EC

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**16. OTHER INFORMATION**

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In Section 2 : ACGIH TLV : 2001

The EU directive 2003/11/EG can be confirmed, since this product is free from flame retardants .

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*The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions.*



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prepared by chief of laboratory