

# Material Safety Data Sheet

according to 91/155/EC



**Product name :** TPC 200  
**Revision :** 11.07.2006      **Version :** 8.0.0  
**Print date :** 24.07.2006

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## 01. Identification of substance, preparation and company

**Product name:**  
TPC 200

### Use of the substance / preparation

TAMPONDRUCKFARBE - PAD PRINTING INK - ENCRE DE TAMPOGRAPHIE - TINTA DE TAMPOGRAFÍA

### Manufacturer/Supplier

TECA-PRINT USA

### Street/P.O.Box

10 Cook Street

### Country code/Postal code/Town/City

Billerica, MA 01821

### Telephone / Telefax

978-667-8655 / 978-670-6023

### Emergency information

InfoTrac >>> 24 h daily : 1-800-535-5053

## 02. Composition/information on ingredients

### Hazardous components

2-BUTOXYETHYL ACETATE ; EC-No. : 203-933-3 ; CAS-No. : 112-07-2

Percentage : 10 ... 25 %  
Classification : Xn ; R 20/21

2-METHOXY-1-METHYLETHYL ACETATE ; EC-No. : 203-603-9 ; CAS-No. : 108-65-6

Percentage : 10 - 20 %  
Classification : R 10 Xi ; R 36

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) ; CAS-No. : 25068-38-6

Percentage : 10 - 25 %  
Classification : N ; R 51/53 R 43 Xi ; R 36/38

CYCLOHEXANONE ; EC-No. : 203-631-1 ; CAS-No. : 108-94-1

Percentage : 2,5 - 10 %  
Classification : R 10 Xn ; R 20

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Anteil : 2,5 - 10 %  
Einstufung : N ; R 51/53 Xn ; R 65 Xi ; R 36/37/38 R 67 R 66

XYLENE ; EC-No. : 215-535-7 ; CAS-No. : 1330-20-7

Percentage : 2,5 - 10 %  
Classification : R 10 Xn ; R 20/21 Xi ; R 38

1,2,4-TRIMETHYLBENZENE ; EC-No. : 202-436-9 ; CAS-No. : 95-63-6

Percentage : < 1 %  
Classification : R 10 N ; R 51/53 Xn ; R 20 Xi ; R 36/37/38

For the wording of the listed risk phrases refer to section 16.

## 03. Hazards identification

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### **Hazard designation**

Flammable. · May cause sensitisation by skin contact. · Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Harmful by inhalation and in contact with skin. · Irritating to eyes and skin.  
Classification : R 10 · R 43 · R 52/53 · Xn ; R 20/21 · Xi ; R 36/38

## **04. First-aid measures**

### **General**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Unconsciousness: lateral position - call a physician.

### **After inhalation**

Remove concerned person out of danger area. Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

### **After skin contact**

Wash away with soap and water and rinse. Do NOT use solvents or thinners.

### **After eye contact**

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

### **After ingestion**

Do not induce vomiting - call a physician. Keep at rest.

## **05. Fire-fighting measures**

### **Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

### **Unsuitable extinguishing media**

Water jet.

### **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### **Special protective equipment**

Appropriate breathing apparatus may be required.

### **Additional information**

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

## **06. Accidental release measures**

### **Personal precautions**

Remove ignition sources. Provide for sufficient ventilation. Refer to protective measures listed in sections 7/8.

### **Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### **Methods for cleaning up/collecting**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

## **07. Handling and storage**

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## Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

## Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

## Requirements to be met by storerooms and containers

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

## Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.

## 08. Exposure controls and personal protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn.

### Components with critical values that require monitoring at the workplace (exposure limits)

2-BUTOXYETHYL ACETATE ; CAS-No. : 112-07-2

Specification : Short term exposure limit ( EC )  
Value : 50 ppm / 333 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : threshold limit value ( EC )  
Value : 20 ppm / 133 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6

Specification : Short term exposure limit ( EC )  
Value : 100 ppm / 550 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : threshold limit value ( EC )  
Value : 50 ppm / 275 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

CYCLOHEXANONE ; CAS-No. : 108-94-1

Specification : Short term exposure limit ( EC )  
Value : 20 ppm / 81,6 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : threshold limit value ( EC )  
Value : 10 ppm / 40,8 mg/m<sup>3</sup>  
Remarks : H

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Version date : 08.06.2000  
Specification : Short term exposure limit ( GB )  
Value : 100 ml/m<sup>3</sup> / 400 mg/m<sup>3</sup>  
Version date : 01.01.1989  
Specification : threshold limit value ( GB )  
Value : 25 ml/m<sup>3</sup> / 100 mg/m<sup>3</sup>  
Version date : 01.01.1989

XYLENE ; CAS-No. : 1330-20-7

Specification : Short term exposure limit ( EC )  
Value : 100 ppm / 442 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000  
Specification : threshold limit value ( EC )  
Value : 50 ppm / 221 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000  
Specification : Short term exposure limit ( GB )  
Value : 150 ml/m<sup>3</sup> / 650 mg/m<sup>3</sup>  
Version date : 01.01.1989  
Specification : threshold limit value ( GB )  
Value : 100 ml/m<sup>3</sup> / 435 mg/m<sup>3</sup>  
Version date : 01.01.1989

## Personal protective equipment

### Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

### Hand protection

Solvent-resistant protective gloves must be worn. After washing hands replace lost skin fat by fat containing skin creams. Protective gloves tested according to EN 374 are advised. For short term contact use gloves with protection index of 2 or more (accordingly > 30 minutes of permeation time). For long term contact use gloves with protection index of 6 (accordingly > 480 minutes of permeation time).

### Eye protection

Use safety glasses.

### Body protection

Personal should wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact. Use appropriate skin protection cream before work.

## 09. Physical and chemical properties

### Image

**Form :** Viscous.  
**Colour :** Coloured.  
**Odour :** Like solvent.

### Relevant safety data

<b>Boiling point / range :</b>	( 1013 hPa )	137 - 215 °C	literature
<b>Flash point :</b>	ca.	43 °C	
<b>Ignition temperature :</b>		200 - 300 °C	
<b>Lower explosion limit :</b>		0,6 % b.v.	literature
<b>Upper explosion limit :</b>		10 % b.v.	literature

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<b>Vapour pressure :</b>	( 50 °C )	<	1000	hPa	
<b>Vapour pressure :</b>	( 20 °C )	ca.	10	hPa	literature
<b>Density :</b>	( 20 °C )		1,05 - 1,7	g/cm <sup>3</sup>	
<b>Solubility in water :</b>	( 20 °C )		insoluble		
<b>pH value :</b>			not applicable		

## 10. Stability and reactivity

### Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

### Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 11. Toxicological information

### Experience on practice

This product is unlikely to harm health, given normal and proper handling and hygienic precautions. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes.

### Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

## 12. Ecological information

### Additional ecological information

#### General ecological information

Do not empty into waters or drains. Toxic effect on fishes and micro- organisms.

## 13. Disposal considerations

### Product

Do not empty into waters or drains. Can be taken to a suitable incineration centre in observance of local regulations.

### Waste key

ABFALLSCHLÜSSEL nach AVV/EWC 08 03 14 Druckfarbenschlämme, die gefährliche Stoffe enthalten.  
Die empfohlene Abfalleinstufung bezieht sich nur auf den reinen Druckfarbenabfall.

### Contaminated packaging

#### Recommendation

Empty containers should be scrapped or reconditioned. Containers, which have not been emptied properly must be treated as special waste.

## 14. Transportinformation

### Land transport ADR/RID

#### Classification

**Class :** 3

**Kemlercode :** 30

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**Substance number :** 1210  
ADR : - (<= 450 l)

**Classification-Code :** F1

**Proper shipping name**  
PRINTING INK

**Packaging**  
**Packaging group :** III  
**Label :** 3

## Maritime transport IMDG/GGVSea

**Classification**  
**IMDG-Code :** 3  
**UN number :** 1210  
IMDG 2.3.2.5 (<= 30 l)

**IMDG - Page :** F-E / S-D  
**Marine Poll. :** -

**Proper shipping name**  
PRINTING INK

**Packaging**  
**Packaging group :** III  
**Label :** 3

## Air transport ICAO-TI and IATA-DGR

**Classification**  
**Class :** 3  
**UN number :** 1210

**Proper shipping name**  
PRINTING INK

**Packaging**  
**Packaging group :** III  
**Label :** 3

## 15. Regulatory information

### Classification according to EEC directives

#### Danger symbol and danger designation



Xn ; Harmful

#### Hazard-determining components of labelling

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) ; CAS-No. : 25068-38-6

#### R-phrases

10 Flammable  
43 May cause sensitisation by skin contact.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
20/21 Harmful by inhalation and in contact with skin.  
36/38 Irritating to eyes and skin.

#### S-phrases

57 Use appropriate container to avoid environmental contamination.

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- |       |   |
|-------|---|
| 61    | Avoid release to the environment. Refer to special instructions/Safety data sheets.           |
| 35    | This material and its container must be disposed of in a safe way.                            |
| 51    | Use only in well-ventilated areas.  |
| 36/37 | Wear suitable protective clothing and gloves.   |
| 26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

## Special designation for certain preparations

- |    |  |
|----|--|
| 92 | Contains epoxy constituents. See information supplied by the manufacturer. |
|----|--|

## International regulatory information

Content VOC (EC) : 51.3 % b.w.

## 16. Other information

### Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the users working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

### Relevant changes

14. Proper shipping name (ADR) · 14. Proper shipping name (IMDG) · 14. Proper shipping name (ICAO)

### R-Phrases of components

- |          |   |
|----------|---|
| 10       | Flammable.  |
| 20       | Harmful by inhalation.  |
| 20/21    | Harmful by inhalation and in contact with skin.   |
| 36       | Irritating to eyes.   |
| 36/37/38 | Irritating to eyes, respiratory system and skin.  |
| 36/38    | Irritating to eyes and skin.  |
| 38       | Irritating to skin.   |
| 43       | May cause sensitisation by skin contact.  |
| 51/53    | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 65       | Harmful: may cause lung damage if swallowed.  |
| 66       | Repeated exposure may cause skin dryness or cracking.                                       |
| 67       | Vapours may cause drowsiness and dizziness.   |