

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



**Product name :** TPC 460  
**Revision :** 02.03.2012      **Version :** 13.0.0  
**Print date :** 14.08.2012

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## **01. Identification of the substance/preparation and of the company/undertaking**

### **Product name**

**TPC 460**

### **Use of the substance / preparation**

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

### **Manufacturer/Supplier**

TECA-PRINT AG

### **Street/P.O.Box**

Bohlstrasse 17, Postfach

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

CH - 8240 Thayngen/Schweiz

### **Telephone / Telefax**

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### **Contact**

info@teca-print.com

### **Emergency information**

Schweizerisches Toxikologisches Infozentrum >>> 24 Stunden täglich : CH - nationaler Notruf für Vergiftungsnotfälle = 145  
oder Telefon : +41 (0) 44 251 51 51

## **02. Hazards identification**

### **Hazard designation**

#### **Directive 67/548/EEC or 1999/45/EC**

Flammable. · May cause sensitisation by skin contact. · Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Risk of serious damage to eyes. · Vapours may cause drowsiness and dizziness.

Classification : R 10 · R 43 · R 52/53 · Xi ; R 41 · Xi ; R 37 · R 67

#### **Regulation (EC) No 1272/2008 (GHS)**

Flammable liquid and vapour. · Causes serious eye damage. · May cause an allergic skin reaction. · May cause drowsiness or dizziness. · Harmful to aquatic life with long lasting effects.

Classification : Aquatic Chronic 3 ; H412 · Eye Dam. 1 ; H318 · Flam. Liq. 3 ; H226 · Skin Sens. 1 ; H317 · STOT SE 3 ; H335 · STOT SE 3 ; H336

## **03. Composition/information on ingredients**

### **Hazardous components**

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

Percentage : 10 - 20 %

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R65 Xi ; R37 R67 R66

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

2-METHYLPROPAN-1-OL ; EC-No. : 201-148-0; CAS-No. : 78-83-1

Percentage : 5 - 10 %

Classification 67/548/EEC : R10 Xi ; R41 Xi ; R37/38 R67

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

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

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Percentage : 2,5 - 10 %  
Classification 67/548/EEC : R10 Xn ; R20/21 Xi ; R38  
Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

BUTYLGLYCOLATE ; EC-No. : 230-991-7; CAS-No. : 7397-62-8

Percentage : 2,5 - 5 %  
Classification 67/548/EEC : Xi ; R41  
Classification 1272/2008 (GHS) : Eye Dam. 1 ; H318

BUTAN-1-OL ; EC-No. : 200-751-6; CAS-No. : 71-36-3

Percentage : 1 - 2,5 %  
Classification 67/548/EEC : R10 Xi ; R41 Xn ; R22 Xi ; R37/38 R67  
Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315  
STOT SE 3 ; H335 STOT SE 3 ; H336

FORMALDEHYDE ; EC-No. : 200-001-8; CAS-No. : 50-00-0

Percentage : 0,2 - 1 %  
Classification 67/548/EEC : T ; R23/24/25 C ; R34 Carc. Cat.3 ; R40 R43  
Classification 1272/2008 (GHS) : Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Carc. 2 ; H351 Skin  
Corr. 1B ; H314 Skin Sens. 1 ; H317

2,3-EPOXYPROPYL NEODECANOATE ; EC-No. : 247-979-2; CAS-No. : 26761-45-5

Percentage : < 1 %  
Classification 67/548/EEC : N ; R51/53 R43  
Classification 1272/2008 (GHS) : Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

(2-METHOXYMETHYLETHOXY)PROPANOL ; EC-No. : 252-104-2; CAS-No. : 34590-94-8

Percentage : 2,5 - 10 %  
Classification : Substance with a Community workplace exposure limit.

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

## 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

Waterjet.

### Special risk posed by the substance or by the actual preparation, its combustion

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## 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 and 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

### 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/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-METHYLPROPAN-1-OL ; CAS-No. : 78-83-1

Specification :      Limit value (Short term) ( GB )

Value :              75 ml/m<sup>3</sup> / 225 mg/m<sup>3</sup>

Version date :      01.01.1989

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Specification : Limit value (8 hours) ( GB )  
Value : 50 ml/m<sup>3</sup> / 150 mg/m<sup>3</sup>  
Version date : 01.01.1989

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

Specification : Limit value (Short term) ( EC )  
Value : 100 ppm / 442 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : Limit value (8 hours) ( EC )  
Value : 50 ppm / 221 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : Limit value (Short term) ( GB )  
Value : 150 ml/m<sup>3</sup> / 650 mg/m<sup>3</sup>  
Version date : 01.01.1989

Specification : Limit value (8 hours) ( GB )  
Value : 100 ml/m<sup>3</sup> / 435 mg/m<sup>3</sup>  
Version date : 01.01.1989

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS-No. : 34590-94-8

Specification : Limit value (8 hours) ( EC )  
Value : 50 ppm / 308 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

BUTAN-1-OL ; CAS-No. : 71-36-3

Specification : Limit value (8 hours) ( GB )  
Value : 50 ml/m<sup>3</sup> / 150 mg/m<sup>3</sup>  
Remarks : H  
Version date : 01.01.1989

FORMALDEHYDE ; CAS-No. : 50-00-0

Specification : Limit value (8 hours) ( GB )  
Value : 2 ml/m<sup>3</sup> / 2,5 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 clothings 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

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work.

## 09. Physical and chemical properties

### Image

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

### Relevant safety data

<b>Boiling point / range :</b>	( 1013 hPa )		108 - 200	°C	literature
<b>Flash point :</b>		ca.	27	°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
<b>Vapour pressure :</b>	( 50 °C )	<	1000	hPa	
<b>Vapour pressure :</b>	( 20 °C )	ca.	10,6	hPa	literature
<b>Density :</b>	( 20 °C )		1,1 - 1,5	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

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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. Transport information

### Land transport ADR/RID

#### Classification

**Class :** 3      **Kemlercode :** 30  
**UN number :** 1210      **Classification-Code :** F1

ADR : - (<= 450 l) · Tunnel restriction code : D/E

#### Proper shipping name

PRINTING INK

#### Packaging

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

### Maritime transport IMDG/GGVSea

#### Classification

**IMDG-Code :** 3      **EmS number :** F-E / S-D  
**UN number :** 1210      **Marine Poll. :** -

IMDG 2.3.2.5 (<= 30 l)

#### Proper shipping name

PRINTING INK

#### Packaging

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

### Air transport ICAO-TI and IATA-DGR

#### Classification

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

E 1

#### Proper shipping name

PRINTING INK

#### Packaging

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

## 15. Regulatory information

### Labelling (67/548/EEC or 1999/45/EC)

Danger symbol and danger designation

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Xi ; Irritant

## Hazard-determining components of labelling

FORMALDEHYDE 0,8 % ; CAS-No. : 50-00-0

### 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.  
41 Risk of serious damage to eyes.  
37 Irritating to respiratory system.  
67 Vapours may cause drowsiness and dizziness.

### S-phrases

- 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.  
37/39 Wear suitable gloves and eye/face protection.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
24/25 Avoid contact with skin and eyes.

## Regulation (EC) No 1272/2008 (GHS)

### Classification

#### Hazard classes and hazard categories

Flam. Liq. 3 · Eye Dam. 1 · STOT SE 3 · STOT SE 3 · Skin Sens. 1 · Aquatic Chronic 3

### Labelling

#### Hazard pictograms



Flame (GHS02) · Corrosion (GHS05) · Exclamation mark (GHS07)

#### Signal word

Danger

### Hazard-determining components of labelling

FORMALDEHYDE 0,8 % ; CAS-No. : 50-00-0

### Hazard statements

- H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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P233                      Keep container tightly closed.  
P310                      Immediately call a POISON CENTER or doctor/physician.  
P321                      Specific treatment (see ... on this label).  
P403/235                Store in a well-ventilated place. Keep cool.  
P501                      Dispose of contents/container to ...

## International regulatory information

Content VOC (EC) : 33,1 % b.w.

## 16. Other information

### Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's 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

15. GHS - Hazard pictograms · 15. GHS - Signal word · 15. GHS - Hazard statements · 15. GHS - Precautionary statements

### R-Phrases of components

10                        Flammable.  
20/21                    Harmful by inhalation and in contact with skin.  
22                        Harmful if swallowed.  
23/24/25                Toxic by inhalation, in contact with skin and if swallowed.  
34                        Causes burns.  
37                        Irritating to respiratory system.  
37/38                    Irritating to respiratory system and skin.  
38                        Irritating to skin.  
40                        Limited evidence of a carcinogenic effect.  
41                        Risk of serious damage to eyes.  
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.

### GHS Hazard statements of components

H226                    Flammable liquid and vapour.  
H301                    Toxic if swallowed.  
H302                    Harmful if swallowed.  
H304                    May be fatal if swallowed and enters airways.  
H311                    Toxic in contact with skin.  
H312                    Harmful in contact with skin.  
H314                    Causes severe skin burns and eye damage.  
H315                    Causes skin irritation.  
H317                    May cause an allergic skin reaction.  
H318                    Causes serious eye damage.  
H331                    Toxic if inhaled.  
H332                    Harmful if inhaled.



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H335                      May cause respiratory irritation.  
H336                      May cause drowsiness or dizziness.  
H351                      Suspected of causing cancer.  
H411                      Toxic to aquatic life with long lasting effects.

**Department issuing data sheet**

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msds@teca-print.com

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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