

Material Safety Data Sheet

according to 91/155/EC



Product name : TPC 180
Revision : 11.07.2006 Version : 7.0.0
Print date : 24.07.2006

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01. Identification of substance, preparation and company

Product name:
TPC 180

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

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

Percentage : 10 - 25 %
Classification : R 10 Xn ; R 20

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

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

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

Percentage : 2,5 - 10 %
Classification : R 10 Xi ; R 36

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

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

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

03. Hazards identification

Hazard designation

Flammable. · Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Harmful by inhalation.
Classification : R 10 · R 52/53 · Xn ; R 20

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.

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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, CO₂, 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

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.

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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)

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

Specification : Short term exposure limit (EC)
Value : 20 ppm / 81,6 mg/m³
Remarks : H
Version date : 08.06.2000

Specification : threshold limit value (EC)
Value : 10 ppm / 40,8 mg/m³
Remarks : H
Version date : 08.06.2000

Specification : Short term exposure limit (GB)
Value : 100 ml/m³ / 400 mg/m³
Version date : 01.01.1989

Specification : threshold limit value (GB)
Value : 25 ml/m³ / 100 mg/m³
Version date : 01.01.1989

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

Specification : Short term exposure limit (EC)
Value : 50 ppm / 333 mg/m³
Remarks : H
Version date : 08.06.2000

Specification : threshold limit value (EC)
Value : 20 ppm / 133 mg/m³
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/m³
Remarks : H
Version date : 08.06.2000

Specification : threshold limit value (EC)
Value : 50 ppm / 275 mg/m³
Remarks : H
Version date : 08.06.2000

Personal protective equipment

Respiratory protection

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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

| | | | | |
|--------------------------------|--------------|-----|------------------------------|------------|
| Boiling point / range : | (1013 hPa) | | 145 - 195 °C | literature |
| Flash point : | | ca. | 43 °C | |
| Ignition temperature : | | | 200 - 300 °C | |
| Lower explosion limit : | | | 0,6 % b.v. | literature |
| Upper explosion limit : | | | 10 % b.v. | literature |
| Vapour pressure : | (50 °C) | < | 1000 hPa | |
| Vapour pressure : | (20 °C) | ca. | 5 hPa | literature |
| Density : | (20 °C) | | 1,05 - 1,5 g/cm ³ | |
| Solubility in water : | (20 °C) | | insoluble | |
| pH value : | | | 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

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

Kemlercode : 30
Classification-Code : F1

Proper shipping name

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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

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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

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Label : 3

15. Regulatory information

Classification according to EEC directives

Danger symbol and danger designation



Xn ; Harmful

Hazard-determining components of labelling

R-phrases

10 Flammable
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20 Harmful by inhalation.

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.

International regulatory information

Content VOC (EC) : 46,4 % 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) · 15. S-phrases

R-Phrases of components

10 Flammable.
20 Harmful by inhalation.
20/21 Harmful by inhalation and in contact with skin.
36 Irritating to eyes.
37 Irritating to respiratory system.
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.

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.