

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013

Version : 1

Print date : 15.11.2013

Page : 1 / 8

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

### 1.1 Product identifier

Product name

TPC MINT INK

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Printing inks

### 1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier:

TECA-PRINT AG  
Bohlstrasse 17, Postfach  
CH - 8240 Thayngen/Schweiz  
Phone: +41 (0) 52 645 20 00  
Fax: +41 (0) 52 645 21 01  
E-mail: info@teca-print.com

### 1.4 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

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS05



GHS08

Signal word

Danger

Hazard-determining components of labelling:

butyl glycollate

Hazard statements

H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H361 Suspected of damaging fertility or the unborn child.

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013 Version : 1

Print date : 15.11.2013

Page : 2 / 8

## Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P280 Wear protective gloves / eye protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Additional information:

- Contains isocyanates. May produce an allergic reaction.  
Contains 4-isocyanatosulphonyltoluene. May produce an allergic reaction.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

- PBT: Not applicable  
vPvB: Not applicable

## 03 Composition/information on ingredients

### 3.2 Chemical characterization: Mixtures

#### Description:

Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 54839-24-6 EINECS: 259-370-9	2-ethoxy-1-methylethyl acetate ----- ☞ Flam. Liq. 3, H226; ☞ STOT SE 3, H336	10-25 %
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate ----- ☞ Flam. Liq. 3, H226	10-25 %
CAS: 7397-62-8 EINECS: 230-991-7	butyl glycollate ----- ☞ Repr. 2, H361; ☞ Eye Dam. 1, H318	2,5-10 %
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black	1-2,5 %
CAS: 4083-64-1 EINECS: 223-810-8	4-isocyanatosulphonyltoluene ----- ☞ Resp. Sens. 1, H334; ☞ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 1 %

#### Additional information:

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

## 04 First aid measures

### 4.1 Description of first aid measures:

#### After inhalation:

Supply fresh air; consult doctor in case of complaints.

#### After skin contact:

Generally the product does not irritate the skin.

#### After eye contact:

Rinse opened eye for several minutes under running water.

#### After swallowing:

If symptoms persist consult doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013 Version : 1

Print date : 15.11.2013

Page : 3 / 8

## 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 05 Firefighting measures

### 5.1 Extinguishing media:

#### Suitable extinguishing agents:

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

#### For safety reasons unsuitable extinguishing agents:

Water with full jet

### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3 Advice for firefighters:

#### Protective equipment:

Wear self-contained respiratory protective device.

## 06 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

### 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 07 Handling and storage

### 7.1 Precautions for safe handling:

No special precautions are necessary if used correctly.

#### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

#### Requirements to be met by storerooms and receptacles:

No special requirements.

#### Information about storage in one common storage facility:

Not required.

#### Further information about storage conditions:

Keep container tightly sealed.

### 7.3 Specific end use(s):

No further relevant information available.

## 08 Exposure controls/personal protection

### Additional information about design of technical facilities:

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013

Version : 1

Print date : 15.11.2013

Page : 4 / 8

No further data; see item 7.

## 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
<b>1333-86-4 Carbon black</b>	
WEL	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3.5 mg/m <sup>3</sup>

### Additional information:

The lists valid during the making were used as basis.

## 8.2 Exposure controls

### Personal protective equipment:

#### General protective and hygiene measures:

Wash hands before breaks and at the end of work.

#### Respiratory protection:

Not required.

#### Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR

#### Eye protection:



Tightly sealed goggles

## 09 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

General Information	
<b>Appearance</b>	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013 Version : 1

Print date : 15.11.2013

Page : 5 / 8

<b>Change in condition</b>	
<b>Melting point /Melting range:</b>	Undetermined.
<b>Boiling point /Boiling range:</b>	> 140 °C
<b>Flash point:</b>	44 °C (Abel Penski)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature :</b>	315 °C
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
<b>Explosion limit :</b>	
<b>Lower:</b>	1,5 Vol %
<b>Upper:</b>	10,8 Vol %
<b>Vapour pressure at 20 °C:</b>	3,4 hPa
<b>Density at 20 °C:</b>	Not determined.
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>VOC (EC):</b>	19,85 %
<b>9.2 Other information</b>	No further relevant information available.

## 10 Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions:

No dangerous reactions known.

### 10.4 Conditions to avoid:

No further relevant information available.

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

#### 7397-62-8 butyl glycollate

Oral LD50 ; 4595 mg/kg (rat)

#### Primary irritant effect:

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013 Version : 1

Print date : 15.11.2013 Page : 6 / 8

**on the skin:** No irritant effect.  
**on the eye:** No irritating effect.  
**Sensitization:** No sensitizing effects known.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Repr. 2

## 12 Ecological information

### 12.1 Toxicity:

#### Aquatic toxicity:

No further relevant information available.

### 12.2 Persistence and degradability:

No further relevant information available.

#### Behaviour in environmental systems:

### 12.3 Bioaccumulative potential:

No further relevant information available.

### 12.4 Mobility in soil:

No further relevant information available.

#### Additional ecological information:

##### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## 13 Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### European waste catalogue:

08 03 12:	waste ink containing dangerous substances
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#### Uncleaned packaging:

##### Recommendation:

Disposal must be made according to official regulations.

## 14 Transport information

### 14.1 UN-Number

ADR, ADN

Void

IMDG, IATA

UN1210

### 14.2 UN proper shipping name

ADR, ADN,

Void

IMDG, IATA

PRINTING INK

### 14.3 Transport hazard class(es)

ADR

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK




Revision : 11.11.2013

Version : 1

Print date : 15.11.2013

Page : 7 / 8

<b>Class:</b>	Void Not restricted goods according to ADR 2.2.3.1.5 - shipped in containers less than 450L
<b>ADN/R Class:</b>	Void
<b>IMDG, IATA</b>	
	
<b>Class:</b>	3 Flammable liquids.
<b>Label:</b>	3
<b>14.4 Packing group:</b>	
<b>ADR</b>	Void
<b>IMDG, IATA</b>	III
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>EMS Number:</b>	F-E,S-D
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	--

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.

### Department issuing data sheet:

TECA-PRINT AG, Bohlstrasse 17, CH - 8240 Thayngen, Switzerland  
msds@teca-print.com

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# Material Safety Data Sheet

according to Regulation (EC) 1907/2006, Article 31

Product name : TPC MINT INK



Revision : 11.11.2013 Version : 1

Print date : 15.11.2013

Page : 8 / 8

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## Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Repr. 2: Reproductive toxicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3