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# <u>SECTION 1: Identification of the substance/mixture and of the company/undertaking</u>

# 1.1. Product identifier

P2 1 /L

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

## Use of the substance/preparation

Screen and pad printing auxiliary

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

## **Address**

Marabu GmbH & Co. KG Asperger Strasse 4 71732 Tamm Germany

Telephone no. +49-7141/691-0 Fax no. +49-7141/691-147

Information provided Department product safety

by / telephone

# 1.4. Emergency telephone number

(+49) (0)621-60-43333

# **SECTION 2: Hazards identification \*\*\***

# 2.1. Classification of the substance or mixture

# Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
Asp. Tox. 1	H304
STOT RE 2	H373
Aquatic Chronic 3	H412

# 2.2. Label elements

# Labelling according to regulation (EC) No 1272/2008

# Hazard pictograms







# Signal word

Danger

# Hazard statements \*\*\*

H226 Flammable liquid and vapour.

H332 Harmful if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure:

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Keep away from heat, hot surfaces, sparks, open flames and other ignition P210

sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Do NOT induce vomiting. P331

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Ethyl benzene; Xylene; Toluene

2.3. Other hazards

No special hazards have to be mentioned.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Chlorinated polyolefines in solvents

# **Hazardous ingredients**

**Xylene** 

CAS No. 1330-20-7 EINECS no. 215-535-7

Registration no. 01-2119488216-32/01-2119486136-34

Concentration 50 92 % <

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315 Flam. Liq. 3 H226 Acute Tox. 4 H332 Acute Tox. 4 H312 Eve Irrit. 2 H319 STOT SE 3 H335 STOT RE 2 H373 H304 Asp. Tox. 1 H412 Aquatic Chronic 3

Ethyl benzene

CAS No. 100-41-4 EINECS no. 202-849-4

Registration no. 01-2119489370-35

Concentration 25 % >= 10

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225 Acute Tox. 4 H332 STOT RE 2

H373 Ear

Asp. Tox. 1 H304 Aquatic Chronic 3 H412

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# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

# After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

# After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

# 4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist

#### Non suitable extinguishing media

Not be used for safety reasons: water jet

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

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke; Hydrogen chloride (HCl)

#### 5.3. Advice for firefighters

# Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

# **SECTION 6: Accidental release measures**

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

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

## 6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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

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.

#### 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

## Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

## Advice on protection against fire and explosion

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

### Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires B (Combustible liquid substances)

Temperature class T2

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Electrical installations/working materials must comply with the local applied technological safety standards. Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation

#### Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

#### Further information on storage conditions

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# 7.3. Specific end use(s)

Screen and pad printing auxiliary

# **SECTION 8: Exposure controls/personal protection \*\*\***

## 8.1. Control parameters

# Derived No/Minimal Effect Levels (DNEL/DMEL) \*\*\*

**Xylene** 

Type of value Derived No Effect Level (DNEL)

Reference group Worker

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Duration of exposure Long term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 221 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Short term
inhalative
Systemic effects

Concentration 442 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Worker

Long term
inhalative
Local effects

Concentration 221 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Worker

Short term
inhalative
Local effects

Concentration 442 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 212 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term

inhalative

Systemic effects

Concentration 65,3 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short term
inhalative

Systemic effects

Concentration 260 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term

inhalative

Local effects

Concentration

65,3

Concentration 65,3 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Short term
Route of exposure inhalative

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Mode of action Local effects

Concentration 260 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 125 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long term
Route of exposure oral

Mode of action Systemic effects

Concentration 12,5 mg/kg/d

Ethyl benzene

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Worker

Long term
inhalative

Systemic effects

Concentration 77 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Worker

Long term

inhalative

Local effects

293

Concentration 293 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 180 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 15 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long term
Route of exposure oral

Mode of action Systemic effects

Concentration 1,6 mg/kg/d

Predicted No Effect Concentration (PNEC) \*\*\*

**Xylene** 

Type of value PNEC
Type Freshwater

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Concentration 0,327 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,327 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 12,46 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 12,46 mg/kg

Type of value PNEC Type Soil

Concentration 2,31 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 6,58 mg/l

Type of value PNEC

Type Water (intermittent release)

Concentration 0,327 mg/l

Ethyl benzene

Type of value PNEC
Type Freshwater

Concentration 0,1 mg/l

Type of value PNEC Saltwater

Concentration 0,01 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 9,6 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 13,7 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 1,37 mg/kg

Type of value PNEC Type Soil

Concentration 2,68 mg/kg

# 8.2. Exposure controls

#### **Exposure controls**

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, suitable respiratory protection must be worn.

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## **Respiratory protection**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

## Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

# **Eye protection**

Use safety eyewear designed to protect against splash of liquids.

# **Body protection**

Cotton or cotton/synthetic overalls or coveralls are normally suitable.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Form Liquid

**Colour** colourless to yellowish

Odour solvent-like

Odour threshold

Remarks No data available

pH value

Remarks Not applicable

**Melting point** 

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 136 °C

Pressure 1.013 hPa

Source Literature value

Flash point

Value 30 °C

Method ASTM D 6450 (CCCFP)

**Evaporation rate (ether = 1):** 

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Lower explosion limit appr. 1 %(V)

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Upper explosion limit appr. 7,8 %(V)
Source Literature value

Vapour pressure

Value 8 hPa

Temperature 20 °C

Method calculated

Vapour density

Remarks not determined

**Density** 

Value 0,870 g/cm<sup>3</sup>

Temperature 20 °C

Method DIN EN ISO 2811

Solubility in water

Remarks partially miscible

Partition coefficient: n-octanol/water

Remarks Not applicable

Ignition temperature

Value appr. 430 °C

Source Literature value

Efflux time

Value 10,2 s

Method DIN 53211 4 mm

**Explosive properties** 

evaluation no

**Oxidising properties** 

evaluation None known

#### 9.2. Other information

#### Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

# 10.2. Chemical stability

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

# 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

# 10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

#### 10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

# SECTION 11: Toxicological information

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# 11.1. Information on toxicological effects

**Acute oral toxicity** 

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

**Acute dermal toxicity (Components)** 

Xylene

Species rabbit

LD50 > 4200 mg/kg

Acute inhalational toxicity

Remarks The classification criteria are met.

**Acute inhalative toxicity (Components)** 

**Xylene** 

Species rat

LC50 > 29 mg/l

Duration of exposure 4 h

Administration/Form Vapors

Skin corrosion/irritation

evaluation irritant

Remarks The classification criteria are met.

Serious eye damage/irritation

evaluation irritant

Remarks The classification criteria are met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks The classification criteria are met. evaluation May cause respiratory irritation.

Repeated exposure

Remarks The classification criteria are met.

evaluation May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

Harmful: may cause lung damage if swallowed. The classification criteria are met.

**Experience in practice** 

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Irritating to skin. The liquid splashed in the eyes may cause

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irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the GHS/CLP Regulation (EC) No 1272/2008.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

#### **General information**

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

# 12.2. Persistence and degradability

#### General information

No data available

## 12.3. Bioaccumulative potential

#### **General information**

There are no data available on the mixture itself.

#### Partition coefficient: n-octanol/water

Remarks Not applicable

#### 12.4. Mobility in soil

#### **General information**

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

#### **General information**

There are no data available on the mixture itself.

## 12.6. Other adverse effects

## **General information**

There are no data available on the mixture itself.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is EWC waste code 08 03 12\* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

#### Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

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Not emptied containers are hazardous waste (waste code number 150110).

# **SECTION 14: Transport information**

# Land transport ADR/RID

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

Class Label 3

14.4. Packing group

Ш Packing group Special provision 640E **Limited Quantity** 5 I Transport category 4

14.5. Environmental hazards

Tunnel restriction code D/E

# Marine transport IMDG/GGVSee

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

Class

14.4. Packing group

Ш Packing group

14.5. Environmental hazards

#### Air transport ICAO/IATA

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT RELATED MATERIAL

14.3. Transport hazard class(es) 3

Class

14.4. Packing group

Ш Packing group

14.5. Environmental hazards

# Information for all modes of transport

#### 14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

# **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance

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#### or mixture

#### Other information

The product does not contain substances of very high concern (SVHC).

#### Other information

All components are contained in the AICS inventory. All components are contained in the DSL inventory. All components are contained in the IECSC inventory. All components are contained in the ENCS inventory. All components are contained in the ECL inventory.

## 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

## Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure:
H412	Harmful to aquatic life with long lasting effects.

## **CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Asp. Tox. 1

Eye Irrit. 2

Flam. Liq. 2

Flam. Liq. 3

Skin Irrit. 2

Aspiration hazard, Category 1

Eye irritation, Category 2

Flammable liquid, Category 2

Flammable liquid, Category 3

Skin irritation, Category 2

STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2 STOT SE 3 Specific target organ toxicity - single exposure, Category 3

# **Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.