

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.01.2015

Version 1

Revision: 21.01.2015

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

#### 1.1 Product identifier

**Trade name:** mibenco thinner

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

Not applicable.

**Application of the substance / the preparation:** Thinner, Diluent

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

**Manufacturer/ Supplier:**mibenco@ gmbh  
Am Sportplatz 5  
63791 Karlstein  
GERMANYHomepage: [www.mibenco.com](http://www.mibenco.com)  
E-mail: [info@mibenco.com](mailto:info@mibenco.com)  
Phone: +49(0)6188-9575-20**Further information obtainable from:** Geschäftsführung

Phone: +49(0)6188-9575-20

#### 1.4 Emergency telephone number:

 Poison Control Center Mainz

+49 (0) 6131-19240 (24h)

### SECTION 2: 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.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

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#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20: Harmful by inhalation.



Xi; Irritant

R38: Irritating to skin.

R10: Flammable.

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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#### 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 GHS07

**Signal word** Warning

##### Hazard-determining components of labelling:

xylene  
ethylbenzene

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### Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.









**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture consisting of the following components.

#### Dangerous components:

CAS: 1330-20-7	xylene	90 - 100%
EINECS: 215-535-7	 Xn R20/21  Xi R38 R10  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 100-41-4	ethylbenzene	- 10%
EINECS: 202-849-4	 Xn R20  F R11  Flam. Liq. 2, H225  Acute Tox. 4, H332	

**Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient in stably side position for transportation.

#### After skin contact:

In case of skin redness or inflammation consult doctor.

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

If symptoms persist consult doctor.

**After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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**4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous and asphyxiating gases.

**5.3 Advice for firefighters****Protective equipment:**

If necessary:

Wear self-contained respiratory protective device.

**Additional information**

Avoid contaminated fire fighting water getting into surface waters or ground water.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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

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

Ensure adequate ventilation.

**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.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**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:** Storerooms must be well ventilated.**Information about storage in one common storage facility:**

Storage in the near of other chemicals or products has to be verified.

**Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

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### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

##### 1330-20-7 xylene

WEL (Great Britain) Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

IOELV (EU) Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
Skin

##### 100-41-4 ethylbenzene

WEL (Great Britain) Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Sk

IOELV (EU) Short-term value: 884 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Skin

#### DNELs

Substance: xylene

Long-term exposition - inhalation - systemic: 77 mg/m<sup>3</sup>

Source: European Chemicals Agency

#### PNECs

fresh water 327 mg/L

sea water 327 mg/L

Intermittent release 327 mg/L

STP: 6.58 mg/L

sediment fresh water: 12.46

sediment sea water: 12.46

soil: 3.21

#### Ingredients with biological limit values:

##### 1330-20-7 xylene

BMGV (Great Britain) 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

##### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter A/P2

##### Protection of hands:

Wear gloves for the protection against chemical hazards according to EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

##### Material of gloves

PVA 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.

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**Penetration time of glove material**

Polyvinylalcohol (PVA): layer thickness: ca. 0.4 mm, breakthrough time: > 480 min  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

**Not suitable are gloves made of the following materials:** Natural rubber, NR**Eye protection:** Tightly sealed goggles**Body protection:** Protective work clothing**Limitation and supervision of exposure into the environment**

See section 6 and 12 for further information.

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	-34 °C
<b>Boiling point/Boiling range:</b>	136-144 °C

**Flash point:** 27 °C (DIN 51755 T. 1)**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** 465 °C**Decomposition temperature:** Not determined.**Self-igniting:** Product is not self-igniting.**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Explosion limits:**

<b>Lower:</b>	1.0 Vol %
<b>Upper:</b>	7.6 Vol %

**Vapour pressure at 20 °C:** 6.7 - 8.2 hPa**Density at 20 °C:** 0.868 g/cm<sup>3</sup>**Relative density** Not determined.**Vapour density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:**

<b>Dynamic at 20 °C:</b>	0.61 mPas
<b>Kinematic:</b>	Not determined.
<b>VOC (EC)</b>	100 %

**9.2 Other information**

No further relevant information available.

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### SECTION 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

 Reacts with strong oxidising agents.

#### 10.4 Conditions to avoid

 Heat, flames and sparks.

#### 10.5 Incompatible materials:

Strong oxidizing agents

Strong acids

Strong bases

#### 10.6 Hazardous decomposition products:

 No dangerous decomposition products known.**Additional information:** In case of thermal decomposition irritating gases may occur.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute oral toxicity

##### 1330-20-7 xylene

Oral LD50 1.59 g/kg (mouse)

##### Acute dermal toxicity

##### 1330-20-7 xylene

Dermal LD50 2 - 12126 g/kg (rabbit)

##### Acute inhalative toxicity

##### 1330-20-7 xylene

Inhalative LC50 10 - 20 mg/L (-)

##### Primary irritant effect:

**On the skin:** Irritant to skin and mucous membranes.**Sensitisation:** No sensitising effects known.

##### Other information (about experimental toxicology):

Has degreasing effect on the skin. May cause symptoms such as redness, blistering, dermatitis.

##### Additional toxicological information:

Vapours have narcotic effect.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

### SECTION 12: Ecological information

#### 12.1 Toxicity

The product is not classified as dangerous for the environment. Nevertheless, larger leaks may have a harmful effect on the environment.

##### Fish toxicity

##### 1330-20-7 xylene

LC50 7.6 mg/L (fish) (96h, Oncorhynchus mykiss)

##### Daphnia toxicity

##### 1330-20-7 xylene

LC50 3.28 mg/L (Daphnia Magna) (48h)

##### Algae toxicity

##### 1330-20-7 xylene

EC50 4.7 mg/L (algae) (72h, Pseudokirchneriella subcapitata)

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**Bacteria toxicity**

**1330-20-7 xylene**

EC50 > 175 mg/L (bacteria) (activated sludge)

**12.2 Persistence and degradability** Easily biodegradable

**Method** OECD criteria

**12.3 Bioaccumulative potential** BCF: 25.9

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product 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.

### SECTION 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.

**Uncleaned packaging:**

**Recommendation:**

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

**14.1 UN-Number**

ADR, IMDG, IATA

UN1307

**14.2 UN proper shipping name**

ADR, IMDG, IATA

XYLENES

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



**Class**

3 Flammable liquids.

**Label**

3

**14.4 Packing group**

ADR, IMDG, IATA

III

**14.5 Environmental hazards:**

**Marine pollutant:**

No

**14.6 Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):**

30

**EMS Number:**

F-E,S-D

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:**

**ADR**

**Limited quantities (LQ)**

5L

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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**Transport category**  
**Tunnel restriction code**3  
D/E**IMDG****Limited quantities (LQ)**  
**Excepted quantities (EQ)**5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml**SECTION 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.**SECTION 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**

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.

R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R20/21 Harmful by inhalation and in contact with skin.  
R38 Irritating to skin.

**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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

**Sources**

Manufacturer's information.  
GESTIS: Data base see [www.dguv.de](http://www.dguv.de)