

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

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

- **1.1 Product identifier**
- **Trade name: Mipa EP-Verdünnung lang**
- **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** Thinner, Diluent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MIPA SE  
Am Oberen Moos 1  
D-84051 Essenbach  
Tel.: +49(0)8703-922-0  
Fax.: +49(0)8703-922-100  
e-mail: sdb-registratur@mipa-paints.com  
www.mipa-paints.com
- **1.4 Emergency telephone number:** International emergency number: +49(0)700 24112112 (MIP)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 3      H226      Flammable liquid and vapour.



health hazard

STOT RE 2      H373      May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1      H304      May be fatal if swallowed and enters airways.



corrosion

Eye Dam. 1      H318      Causes serious eye damage.



environment

Aquatic Chronic 2      H411      Toxic to aquatic life with long lasting effects.



Skin Irrit. 2      H315      Causes skin irritation.

Skin Sens. 1      H317      May cause an allergic skin reaction.

STOT SE 3      H335-H336      May cause respiratory irritation. May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 1)

**Hazard pictograms**


GHS02 GHS05 GHS07 GHS08 GHS09

**Signal word Danger**
**Hazard-determining components of labelling:**

Xylene

Isobutanol

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight =&lt; 700)

Hydrocarbons, C9, aromatics

**Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

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

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

**Additional information:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

**2.3 Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 1330-20-7	Xylene	25-50%
EINECS: 215-535-7		
Reg.nr.: 01-2119488216-32		

(Contd. on page 3)

**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 2)

CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336, EUH066	≥2.5-≤20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	10-25%
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	≥10-<25%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5-<10%
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	2-Butoxyethyl acetate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	5-<10%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	Isobutanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥3-<10%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35	Cyclohexanone ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥3-<10%

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

**SECTION 4: First aid measures**

 · **4.1 Description of first aid measures**

 · **General information:** Immediately remove any clothing soiled by the product.

 · **After inhalation:**

Supply fresh air and to be sure call for a doctor.

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

 · **After skin contact:** Immediately rinse with water.

 · **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

 · **After swallowing:** Seek immediate medical advice.

 · **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

 · **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 gases are produced.

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

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Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 3)

- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
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).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
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.  
Keep respiratory protective device available.
- **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:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

#### 1330-20-7 Xylene

WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
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#### 108-65-6 2-Methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
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(Contd. on page 5)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 4)

**100-41-4 Ethylbenzene**

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

**112-07-2 2-Butoxyethyl acetate**

 WEL Short-term value: 332 mg/m<sup>3</sup>, 50 ppm  
 Long-term value: 133 mg/m<sup>3</sup>, 20 ppm  
 Sk

**78-83-1 Isobutanol**

 WEL Short-term value: 231 mg/m<sup>3</sup>, 75 ppm  
 Long-term value: 154 mg/m<sup>3</sup>, 50 ppm

**108-94-1 Cyclohexanone**

 WEL Short-term value: 82 mg/m<sup>3</sup>, 20 ppm  
 Long-term value: 41 mg/m<sup>3</sup>, 10 ppm  
 Sk, BMGV

**· Ingredients with biological limit values:**
**1330-20-7 Xylene**

 BMGV 650 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 Parameter: methyl hippuric acid

**108-94-1 Cyclohexanone**

 BMGV 2 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 Parameter: cyclohexanol

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

**· 8.2 Exposure controls**

 · **Appropriate engineering controls** No further data; see item 7.

 · **Individual protection measures, such as 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.

Store protective clothing separately.

Avoid contact with the eyes.

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.

**· Hand protection**

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



Protective gloves (EN 374)

(Contd. on page 6)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 5)

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

· **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.

· **Breakthrough time of glove material**

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

· **Eye/face protection**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

108 °C (78-83-1 Isobutanol)

· **Flammability**

Flammable.

· **Lower and upper explosion limit**

· **Lower:**

0.7 Vol % (64742-95-6 Hydrocarbons, C9, aromatics)

· **Upper:**

10.8 Vol % (108-65-6 2-Methoxy-1-methylethyl acetate)

· **Flash point:**

29 °C (DIN 53213)

· **Ignition temperature:**

280 °C (DIN 51794, 112-07-2 2-Butoxyethyl acetate)

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity at 20 °C**

11 s (DIN 53211/4)

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Not miscible or difficult to mix.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure at 20 °C:**

12 hPa (78-83-1 Isobutanol)

· **Density and/or relative density**

· **Density at 20 °C:**

0.909 g/cm<sup>3</sup> (DIN 53217)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **9.2 Other information**

· **Appearance:**

· **Form:**

Fluid

(Contd. on page 7)

**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 6)

**· Important information on protection of health and environment, and on safety.**

- |                                     |   |
|-------------------------------------|---|
| · <b>Auto-ignition temperature:</b> | Product is not selfigniting.  |
| · <b>Explosive properties:</b>      | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Solvent content:</b>           |   |
| · <b>VOC (EC)</b>                   | 90.00 %   |
| · <b>Solids content (weight-%):</b> | 10.0 %  |
| · <b>Change in condition</b>        |   |
| · <b>Evaporation rate</b>           | Not determined.   |

**· Information with regard to physical hazard classes**

- |  |                              |
|--|------------------------------|
| · <b>Explosives</b>  | Void                         |
| · <b>Flammable gases</b>   | Void                         |
| · <b>Aerosols</b>  | Void                         |
| · <b>Oxidising gases</b>   | Void                         |
| · <b>Gases under pressure</b>  | Void                         |
| · <b>Flammable liquids</b>   | Flammable liquid and vapour. |
| · <b>Flammable solids</b>  | Void                         |
| · <b>Self-reactive substances and mixtures</b>                                     | Void                         |
| · <b>Pyrophoric liquids</b>  | Void                         |
| · <b>Pyrophoric solids</b>   | Void                         |
| · <b>Self-heating substances and mixtures</b>                                      | Void                         |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void                         |
| · <b>Oxidising liquids</b>   | Void                         |
| · <b>Oxidising solids</b>  | Void                         |
| · <b>Organic peroxides</b>   | Void                         |
| · <b>Corrosive to metals</b>   | Void                         |
| · <b>Desensitised explosives</b>   | Void                         |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **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:**  
Possible in traces.  
Nitrogen oxides  
Hydrogen chloride (HCl)  
Carbon monoxide  
Nitrogen oxides (NOx)

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 8)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 7)

· **LD/LC50 values relevant for classification:**

**1330-20-7 Xylene**

Oral	LD50	5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (rat)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) : hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

### 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:** Disposal must be made according to official regulations.

GB

(Contd. on page 9)



**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 8)

**SECTION 14: Transport information**

· 14.1 UN number or ID number  
· ADR, IMDG, IATA

UN1263

· 14.2 UN proper shipping name  
· ADR

UN1263 PAINT RELATED MATERIAL,  
ENVIRONMENTALLY HAZARDOUS  
PAINT RELATED MATERIAL (Solvent naphtha,  
Bisphenolresins), MARINE POLLUTANT  
PAINT RELATED MATERIAL

· IMDG

· IATA

· 14.3 Transport hazard class(es)

· ADR



· Class  
· Label

3 (F1) Flammable liquids.  
3

· IMDG



· Class  
· Label

3 Flammable liquids.  
3

· IATA



· Class  
· Label

3 Flammable liquids.  
3

· 14.4 Packing group

· ADR, IMDG, IATA

III

· 14.5 Environmental hazards:

Product contains environmentally hazardous  
substances: Solvent naphtha

· Marine pollutant:

Yes

· Special marking (ADR):

Symbol (fish and tree)  
Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Hazard identification number (Kemler code):

30

· EMS Number:

F-E, S-E

· Stowage Category

A

· 14.7 Maritime transport in bulk according to  
IMO instruments

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

5L

· Transport category

3

(Contd. on page 10)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 9)

· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>UN "Model Regulation":</b>	UN 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**

Class	Share in %
NK	50-100

· **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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

(Contd. on page 11)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 6 (replaces version 5)

Revision: 16.03.2023

**Trade name: Mipa EP-Verdünnung lang**

(Contd. of page 10)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international 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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **\* Data compared to the previous version altered.**