Revision: 22.08.2024



# Safety data sheet

according to UK REACH

Printing date 22.08.2024

Version number 9 (replaces version 8)

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

- · 1.1 Product identifier
- Trade name: Mipa 2K-EP-Expresshärter EPH
- 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 Hardening agent/ Curing agent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MIPA SE

Am Oberen Moos 1 D-84051 Essenbach Tel.: +49 8703 92 20 Fax.: +49 8703 92 21 00

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 the hearing organs through prolonged or repeated exposure.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms









GHS02 GHS05 GHS07 GHS08

(Contd. on page 2)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 1)

#### · Signal word Danger

### · Hazard-determining components of labelling:

Xylene Butan-1-ol

Polyaminoamide adduct

2,4,6-tris(dimethylaminomethyl)phenol

#### Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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

### Precautionary statements

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

sources. No smoking.

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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

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

#### · 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:		
EINECS: 215-535-7	Xylene  ♠ Flam. Liq. 3, H226; ♠ STOT RE 2, H373; Asp. Tox. 1, H304; ♠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-100%
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	≥10-<25%
	Polyaminoamide adduct ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-<10%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	Butan-1-ol <b>♦</b> Flam. Liq. 3, H226; <b>♦</b> Eye Dam. 1, H318; <b>♦</b> Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥1-<2.5%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1C, H314; Eye Dam. 1, H318; ( Acute Tox. 4, H302	≥1-<2.5%

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



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 2)

### 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: If symptoms persist consult doctor.
- 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:

CO2, 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.

- · 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 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 section 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.

(Contd. on page 4)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 3)

- · 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/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

### 100-41-4 Ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm

Sk

#### 71-36-3 Butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm

### · Ingredients with biological limit values:

### 1330-20-7 Xylene

BMGV 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
- Appropriate engineering controls No further data; see section 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

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

(Contd. on page 5)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 4)



Protective gloves (EN 374)

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

· Colour:

· Odour:

Odour threshold:

· Melting point/freezing point:

· Boiling point or initial boiling point and

boiling range

· Flammability

Lower and upper explosion limit

· Lower: · Upper: · Flash point:

· Auto-ignition temperature:

Decomposition temperature:

· pH

· Viscosity:

· Kinematic viscosity · Dynamic at 20 °C:

Solubility

water:

· Partition coefficient n-octanol/water (log

value)

· Vapour pressure at 20 °C: · Density and/or relative density

Density at 20 °C: Relative density

Vapour density

Fluid

According to product specification

Characteristic
Not determined.
Undetermined.

136 °C (100-41-4 Ethylbenzene)

Flammable.

1 Vol % (100-41-4 Ethylbenzene) 7.8 Vol % (100-41-4 Ethylbenzene) 27 °C (DIN EN ISO 1523:2002)

430 °C (DIN 51794, 100-41-4 Ethylbenzene)

Not determined. Not determined.

Not determined. 1.500 mPas

Not miscible or difficult to mix.

Not determined.

9.5 hPa (100-41-4 Ethylbenzene)

0.89 g/cm³ (DIN EN ISO 2811-1)

Not determined.
Not determined.

(Contd. on page 6)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 5)

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

• **VOC (EC)** 82.95 % • **Solids content (weight-%):** 17.0 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure

Void
Void

· Flammable liquids Flammable liquid and vapour.

Flammable solids
 Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

· Substances and mixtures, which emit

flammable gases in contact with water
Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
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: Carbon monoxide

# 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 7)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 6)

· LD/LC50 values rel	levant for classification:
4000 00 T V I	<u>'</u>

### 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.
- · STOT-repeated exposure

May cause damage to the hearing organs through prolonged or repeated exposure.

· 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
- · 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.

### 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 may not be cleansed are to be disposed of in the same manner as the product.

### **SECTION 14: Transport information**

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA UN1263

(Contd. on page 8)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 7) · 14.2 UN proper shipping name **UN1263 PAINT RELATED MATERIAL** · IMDG, IATA PAINT RELATED MATERIAL · 14.3 Transport hazard class(es) · ADR · Class 3 (F1) Flammable liquids. ·Label · IMDG, IATA · Class 3 Flammable liquids. · Label · 14.4 Packing group · ADR, IMDG, IATA III· 14.5 Environmental hazards: Not applicable. · 14.6 Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 30 F-E,S-E · EMS Number: · Stowage Category Α · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L · Transport category 3 · Tunnel restriction code D/E · IMDG Limited quantities (LQ) 5L

# **SECTION 15: Regulatory information**

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

UN 1263 PAINT RELATED MATERIAL, 3, III

· Poisons Act

· Regulated explosives precursors
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None of the ingredients is listed.

· Regulated poisons

· UN "Model Regulation":

None of the ingredients is listed.

(Contd. on page 9)



according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 8)

### · Reportable explosives precursors

None of the ingredients is listed.

### Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 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.

H314 Causes severe skin burns and eye damage.

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.

H412 Harmful to aquatic life with long lasting effects.

### 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:

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 Corr. 1C: Skin corrosion/irritation - Category 1C

(Contd. on page 10)





# Safety data sheet according to UK REACH

Printing date 22.08.2024 Version number 9 (replaces version 8) Revision: 22.08.2024

Trade name: Mipa 2K-EP-Expresshärter EPH

(Contd. of page 9)

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

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