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Safety Data Sheet

acc. to OSHA HCS

Reviewed on 02/28/2023 Printing date 02/28/2023

1 Identification

- · Product identifier
- · Trade name: Mipa EP-Härter E 25 normal
- · Application of the substance / the mixture Hardening agent/ Curing agent
- · 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

Emergency telephone number:

International: 011 49(0)700 24112112 (MIP)

US: +1 872 5888271 (MIP)

US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.



GHS08 Health hazard

Exposure 2

Specific Target Organ Toxicity - Repeated H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Eye Damage 1

H318 Causes serious eye damage.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

Sensitization - Skin 1

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms









GHS02 GHS05 GHS07 GHS08

· Signal word Danger

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· Hazard-determining components of labeling:

Polvaminoamide adduct

Butan-1-ol Ethylbenzene Isobutanol

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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

· Precautionary statements

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

P303+P361+P353 If on skin (or hair): 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.

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.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *3 Fire = 3 Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	Dangerous components:		
	Polyaminoamide adduct	25-50%	
1330-20-7	Xylene	25-50%	
71-36-3	Butan-1-ol	≥3-<10%	
78-83-1	Isobutanol	≥3-<10%	
100-41-4	Ethylbenzene	2.5-<10%	

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.

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· 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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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.

Protective Action Criteria for Chemicals

1330-20-7	Xylene	130 ppm
71-36-3	Butan-1-ol	60 ppm
78-83-1	Isobutanol	150 ppm
100-41-4	Ethylbenzene	33 ppm
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	6.5 mg/m ³
PAC-2:		·
1330-20-7	Xylene	920* ppm
71-36-3	Butan-1-ol	800 ppm
78-83-1	Isobutanol	1,300 ppm
100-41-4	Ethylbenzene	1100* ppm



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90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	(Contd. of page 3) 72 mg/m³
· PAC-3:		
1330-20-7	Xylene	2500* ppm
71-36-3	Butan-1-ol	8000** ppm
78-83-1	Isobutanol	8000* ppm
	Ethylbenzene	1800* ppm
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	430 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · 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 receptacle tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

1330	0-20-7 Xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, A4	
71-36	36-3 Butan-1-ol	
PEL	Long-term value: 300 mg/m³, 100 ppm	
REL	Ceiling limit value: 150 mg/m³, 50 ppm Skin	
TLV	/ Long-term value: 20 ppm	
78-83	B3-1 Isobutanol	
PEL	Long-term value: 300 mg/m³, 100 ppm	
REL	Long-term value: 150 mg/m³, 50 ppm	
TLV	/ Long-term value: 50 ppm	
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100-41-4 Ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

OTO, BEI, A3

Ingredients with biological limit values:

1330-20-7 Xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

100-41-4 Ethylbenzene

BEI 0.15 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · 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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

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

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.

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· Eye protection:



Tightly sealed goggles

Information on besieveles level	
Information on basic physical and General Information	cnemical properties
Appearance:	
Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	116-118 °C (240.8-244.4 °F)
Flash point:	24 °C (75.2 °F) (DIN 53213)
Flammability (solid, gaseous):	Flammable.
lgnition temperature:	340 °C (644 °F) (DIN 51794)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosionair/vapor mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	7 Vol %
Vapor pressure at 20 °C (68 °F):	6.7-8.2 hPa (5-6.2 mm Hg)
Density at 20 °C (68 °F):	0.921 g/cm³ (7.686 lbs/gal) (DIN 53217)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	50-60 s (DIN 53211/4)
Solvent content:	
VOC content:	52.91 %
	487 g/l / 4.1 lb/gal
Solids content (weight-%):	47.1 %



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Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

· IARC (Inte	· IARC (International Agency for Research on Cancer)			
1330-20-7	Xylene	3		
100-41-4	Ethylbenzene	2B		
· NTP (Nati	· NTP (National Toxicology Program)			
None of th	None of the ingredients is listed.			
· OSHA-Ca	· OSHA-Ca (Occupational Safety & Health Administration)			
None of th	None of the ingredients is listed.			

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

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

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.

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- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, ADR, IMDG, IATA	UN1263
UN proper shipping name DOT ADR IMDG, IATA	Paint related material UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL
Transport hazard class(es)	
DOT	
TAMMARE LIDUD	
Class Label	3 Flammable liquids 3
ADR	
Class	3 (F1) Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Marine pollutant: Special precautions for user	No Warning: Flammable liquids

· Hazard identification number (Kemler code): 30



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	(Contd. of page
· EMS Number:	F-E, <u>S-E</u>
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	5L
· IMDG · Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

15 Regulatory information

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

3 *	•	•	•	
mixture				
7777744110				
· Sara				

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

· Section 355 (extremely hazardous substances):

1330-20-7 Xylene

71-36-3 Butan-1-ol

100-41-4 Ethylbenzene

· Hazardous Air Pollutants

1330-20-7 Xylene

100-41-4 Ethylbenzene

- Proposition 65
- · Chemicals known to cause cancer:

100-41-4 Ethylbenzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· Cancerogenity categories					
· EPA (Envi	· EPA (Environmental Protection Agency)				
1330-20-7	Xylene		1		
71-36-3	Butan-1-ol		D		
100-41-4	Ethylbenzene		D		
· TLV (Thre	· TLV (Threshold Limit Value)				
1330-20-7	Xylene	A4	25-50%		
100-41-4	Ethylbenzene	A3	2.5-<10%		
· NIOSH-Ca (National Institute for Occupational Safety and Health)					
None of the ingredients is listed					

None of the ingredients is listed.

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· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms









GHS02 GHS05 GHS07

· Signal word Danger

Hazard-determining components of labeling:

Polyaminoamide adduct

Butan-1-ol

Ethylbenzene

Isobutanol

Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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

Precautionary statements

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

P303+P361+P353 If on skin (or hair): 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.

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.

· National regulations:

· Additional classification according to Decree on Hazardous Materials:

Class	Share in %
NK	50-100

· 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.

· Contact:

· Date of preparation / last revision 02/28/2023

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)

ICAO: International Civil Aviation Organisation

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flammable Liquids 3: Flammable liquids - Category 3 Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

* Data compared to the previous version altered.