Professional Coating Systems

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Version number 19

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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: EP-Härter E5 extra kurz · 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 \cdot 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: +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



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<i>a</i> . 1	(Contd. of page 1)
Signal word	l Danger
	ermining components of labelling:
	s, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and
triethylenet	etramine
xylene	
	methylaminomethyl)phenol
ethylbenzen	
Hazard stat	
	nable liquid and vapour.
H315 Cause	es skin irritation.
H318 Cause	es serious eye damage.
	cause an allergic skin reaction.
H335 May a	cause respiratory irritation.
H373 May 6	cause damage to organs through prolonged or repeated exposure.
H412 Harm	ful to aquatic life with long lasting effects.
Precaution	ary 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.
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/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.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other h	azards
	BT and vPvB assessment
PBT : Not a	

· **PBT:** Not applicable.

· vPvB: Not applicable.

*

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1330-20-7	xylene	50-100%
EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	 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 	
CAS: 68082-29-1 NLP: 500-191-5 Reg.nr.: 01-2119972320-44	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine ♦ Eye Dam. 1, H318; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Skin Sens. 1A, H317	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; Škin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	10-25%
	(Co	ntd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31



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CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥2.5-≤5%
EINECS: 202-013-9	🔗 Skin Corr. 1B, H314; 🔶 Skin Sens. 1B, H317; Aquatic Chronic	
Reg.nr.: 01-2119560597-27		
CAS: 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	≥1-<2.5%
EINECS: 292-588-2	Skin Corr. 1B, H314; Eye Dam. 1, H318; (1) Acute Tox. 4, H302;	
Reg.nr.: 01-2119487919-13	Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Additional information, Fo	the wording of the listed hazard phrases refer to section 16	

• 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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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 wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.
- Information for doctor:

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents: Water with full jet

• 5.2 Special hazards arising from the substance or mixture No further relevant information available.

· 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 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). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
 6.4 Performent to other sections
- 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.

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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: 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

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

· 8.1 Control parameters

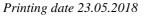
· Ingredients with limit values that require monitoring at the workplace:
1330-20-7 xylene
WEL Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m ³ , 50 ppm
Sk; BMGV
100-41-4 ethylbenzene
WEL Short-term value: 552 mg/m ³ , 125 ppm
Long-term value: 441 mg/m ³ , 100 ppm
Sk
· Ingredients with 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
· 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.

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· Protection of hands:



Protective gloves (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

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 protection:



Tightly sealed goggles

9.1 Information on basic physical and c	hemical properties
General Information	
Appearance:	Fluid
Form: Colour:	
Colour: Odour:	According to product specification Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
•	
Change in condition	TT 1 / 1
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: 130°C
Flash point:	24°C (DIN EN ISO 1523:2002)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	430°C (DIN 51794)
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
Explosion limits:	
Lower:	1 Vol %
Upper:	7.8 Vol %
Vapour pressure at 20°C:	9.5 hPa
Density at 20°C:	0.897 g/cm ³ (DIN EN ISO 2811-1)
Relative density	Not determined.

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· 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:		
Dynamic:	Not determined.	
Kinematic at 20°C:	20 s (DIN 53211/4)	
· Solvent content:		
VOC (EC)	71.43 %	
Solids content (weight-%):	28.6 %	
• 9.2 Other information	No further relevant information available.	

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 toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· 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	5,251 mg/kg (rat) >5,000 mg/kg (rabbit) 29 mg/l (rat)
100-41-4 ethylbenzene		

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,500 mg/kg (rabbit)
Inhalative	LC50/4 h	>24 mg/l (mouse)

· Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye damage.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

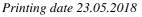
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure

May cause respiratory irritation.

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· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

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.
- · Ecotoxical effects:
- · Remark: Harmful to 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.

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

Harmful to aquatic organisms

- · 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.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

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

- 14.1 UN-Number - ADR, IMDG, IATA	UN1263	
14.2 UN proper shipping name		
ADR	UN1263 PAINT RELATED MATERIAL	
· IMDG, IATA	PAINT RELATED MATERIAL	
ADR	3 (F1) Flammable liquids.	



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Label	3
IMDG, IATA	
3	
· 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-E
Stowage Category	A
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
· Transport category	3
Tunnel restriction code	D/E
· IMDG	
\cdot Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

SECTION 15: Regulatory information

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

- · 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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

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.

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[·] Directive 2012/18/EU

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(Contd. of page 8) 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. 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. · 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) ICAO: International Civil Aviation Organisation 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) 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. 1B: Skin corrosion/irritation - Category 1B 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 Skin Sens. 1A: Skin sensitisation - Category 1A Skin Sens. 1B: Skin sensitisation - Category 1B 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 \cdot * Data compared to the previous version altered.