

Safety data sheet

according to 1907/2006/EC, Article 31 Version number 88 (replaces version 87)

Revision: 02.03.2023

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

- · 1.1 Product identifier
- · Trade name: Mipa PU 900-25 2K-PU-Härter
- **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(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



Flam. Liq. 3 H226 Flammable liquid and vapour.



health hazard

STOT RE 2H373 May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1H304 May be fatal if swallowed and enters airways.



Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye 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



· Signal word Danger

 Hazard-determining components of labelling: Xylene Hexamethylene diisocyanate, oligomers

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Aromatic polyis	ocyanate	
Ethylbenzene		
· Hazard statem	nents	
H226 Flammab	ble liquid and vapour.	
H315 Causes s	skin irritation.	
H319 Causes s	serious eye irritation.	
H317 May caus	se an allergic skin reaction.	
H335 May caus	se respiratory irritation.	
H373 May caus	se damage to organs through prolonged or repeated exposure.	
H304 May be fa	atal if swallowed and enters airways.	
· Precautionary	statements	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P321	Specific treatment (see on this label).	
P331	Do NOT induce vomiting.	
P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all contaminated cloth	ning. Rinse skin
	with water [or shower].	
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. R	emove contact
	lenses, if present and easy to do. Continue rinsing.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
· Additional info	ormation:	
EUH204 Contai	ins isocyanates. May produce an allergic reaction.	
Restricted to pro	rofessional users.	
2.3 Other haza	nrds	
· Results of PB1	T and vPvB assessment	
DBT. Not opplie		

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

Yulana	25-50%
Ayrene 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	25-50%
Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	25-50%
Aromatic polyisocyanate	10-25%
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%
Ethyl acetate ♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<10%
	 H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Aromatic polyisocyanate Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH204 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 Ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H412





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CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	(Ca	ontd. of page 2) 2.5-<5%
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34	<i>m</i> -tolylidene diisocyanate Acute Tox. 1, H330;	<0.1%

• 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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· 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. If symptoms persist, 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: 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.

In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen cyanide (HCN) **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).

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation. Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container. Decontaminate immediately with suitable mixture (flammable): - as such usable (inflammatory!):
water 45 Vol.% ethanol or isopropanol 50 Vol.%
ammonia solution (Density= 0.88) 5 Vol.% - alternatively (non-flammable):
sodium carbonate 5 Vol.% water 95 Vol.%
Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13). • 6.4 Reference to other sections See Section 7 for information on safe handling.
See Section 7 for information on serie nanding. 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. Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision. 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: Berwissments to be met by storage and recented as No special requirements
 Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
Store away from foodstuffs.
Keep container tightly sealed. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.
 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
WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

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28182	2-81-2 Hexamethylene diisocyanate, oligomers
EBW	Short-term value: 0.5 mg/m³ exposition evaluation valu TRGS 430 (EBW)
100-4	1-4 Ethylbenzene
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
141-7	8-6 Ethyl acetate
WEL	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm
123-8	6-4 n-Butyl acetate
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
26471	-62-5 m-tolylidene diisocyanate
WEL	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
Ingre	dients with biological limit values:
1330-	20-7 Xylene
	/ 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
Addit	ional information: The lists valid during the making were used as basis.
Appro Indivi All pe expos Regul Gene Keep Imme Wash Store Avoid Avoid Resp	Appriate controls opriate engineering controls No further data; see item 7. idual protection measures, such as personal protective equipment ersonal protective equipment, including respiratory protecitve equipment, used to control sure to hazardous substances must be selected to meet the requirements of the COSHH lations. ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing hands before breaks and at the end of work. protective clothing separately. contact with the eyes. contact with the eyes and skin. iratory protection: A/P2 (EN 141, EN 143)
	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.
Selec	protection tion of the glove material on consideration of the penetration times, rates of diffusion and the dation



Protective gloves (EN 374)

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

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Material of gloves

- Fluorocarbon rubber (Viton)
- Recommended thickness of the material: $\geq 0.7 \text{ mm}$

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 Value for the permeation: Level < 1
- · Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chem 	ical 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	136 °C (100-41-4 Ethylbenzene)
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1 Vol % (100-41-4 Ethylbenzene)
· Upper:	7.8 Vol % (100-41-4 Ethylbenzene)
· Flash point:	24 °C (DIN 53213, 1330-20-7 Xylene)
Ignition temperature:	430 °C (DIN 51794, 100-41-4 Ethylbenzene)
• Decomposition temperature:	Not determined.
·pH ·	Not determined.
· Viscosity:	
 Kinematic viscosity at 20 °C 	10-15 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:	9.5 hPa (100-41-4 Ethylbenzene)
Density and/or relative density	
· Density at 20 °C:	0.975 g/cm³ (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of heal	
and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
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Solvent content:		
VOC (EC)	61.92 %	
Solids content (weight-%):	38.1 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical haz	ard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
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:

Possible in traces.

Nitrogen oxides Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid) 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.

· 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)

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· Skin corrosion/irritation Causes skin irritation.

- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- STOT-single exposure May cause respiratory irritation.
- 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
- · 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.

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.

SECTION 14: Transport information

• 14.1 UN number or ID number • ADR, IMDG, IATA	UN1263
 14.2 UN proper shipping name ADR IMDG, IATA 	UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL
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14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	
EMS Number: Stowage Category	<i>F-E,<u>S-E</u> A</i>
	^
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
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
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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Professional Coating Systems

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• 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.
- 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.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH204 Contains isocyanates. 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) 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 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 Acute Tox. 1: Acute toxicity - Category 1 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity - Category 2 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

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
* Data compared to the previous version altered.	