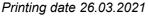
according to 1907/2006/EC, Article 31



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SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: Mipa PU 933-10 2K-PU-Härter · UFI: C2M1-805G-K000-GP7R 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) · 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 GHS02 flame Flam. Liq. 3 Flammable liquid and vapour. H226 GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS02 GHS07 · Signal word Warning

• *Hazard-determining components of labelling:* Hexamethylene diisocyanate, oligomers 2-Methoxy-1-methylethyl acetate n-Butyl acetate

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Hydrogorbong	(Contd. of page 1)
Hydrocarbons, (• Hazard statem	
	mmable liquid and vapour.
	/ cause an allergic skin reaction.
	v cause respiratory irritation. May cause drowsiness or dizziness.
	mful to aquatic life with long lasting effects.
Precautionary	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P3	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
· Additional info	•
EUH066 Repea	ted exposure may cause skin dryness or cracking.
	ns isocyanates. May produce an allergic reaction.
	ofessional users.
2.3 Other haza	
Results of PBT	and vPvB assessment
· PBT: Not applic	
• vPvB: Not appli	
SECTION 3:	Composition/information on ingredients
· 3.2 Chemical c	haracterisation: Mixtures

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

CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers	25-50%
NLP: 500-060-2 Reg.nr.: 01-2119485796-17	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 108-65-6	2-Methoxy-1-methylethyl acetate	10-25%
EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
CAS: 123-86-4	n-Butyl acetate	<i>≤</i> 20%
EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	🚸 Flam. Liq. 3, H226; ۯ STOT SE 3, H336	
CAS: 112-07-2	2-Butoxyethyl acetate	<15%
EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 64742-95-6	Hydrocarbons, C9, aromatics	≥2.5-<15%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	 ♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H335- H336 	
CAS: 77-58-7	dibutyltin dilaurate	<i>≥</i> 0.1-<0.25%
EINECS: 201-039-8 Reg.nr.: 01-2119496068-27	♦ Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	

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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: Generally the product does not irritate the skin. Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **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** In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HĆN)

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

SECTION 6: Accidental release measures

	ected persons away.
6.2 Environmental precautions:	
Do not allow product to reach sewage sys	
Inform respective authorities in case of se	eepage into water course or sewage system.
Do not allow to enter sewers/ surface or g	ground water.
6.3 Methods and material for containm	nent and cleaning up:
Absorb with liquid-binding material (sand,	, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste	
Ensure adequate ventilation.	0
•	
Contain and collect spillades with no	on-combustible absorbent materials (e.g. sand. earth
	on-combustible absorbent materials (e.g. sand, earth) ble container.
diatomaceous earth) and place in a suital	ble container.
diatomaceous earth) and place in a suital Decontaminate immediately with suitable	ble container.
diatomaceous earth) and place in a suital	ble container.
diatomaceous earth) and place in a suital Decontaminate immediately with suitable - as such usable (inflammatory!): water	ble container. mixture (flammable): 45 Vol.%
diatomaceous earth) and place in a suital Decontaminate immediately with suitable - as such usable (inflammatory!): water ethanol or isopropanol	ble container. mixture (flammable): 45 Vol.% 50 Vol.%
diatomaceous earth) and place in a suital Decontaminate immediately with suitable - as such usable (inflammatory!): water ethanol or isopropanol ammonia solution (Density= 0.88)	ble container. mixture (flammable): 45 Vol.% 50 Vol.%
diatomaceous earth) and place in a suitab Decontaminate immediately with suitable - as such usable (inflammatory!): water ethanol or isopropanol	ble container. mixture (flammable): 45 Vol.% 50 Vol.% 5 Vol.%
diatomaceous earth) and place in a suitab Decontaminate immediately with suitable - as such usable (inflammatory!): water ethanol or isopropanol ammonia solution (Density= 0.88) - alternatively (non-flammable):	ble container. mixture (flammable): 45 Vol.% 50 Vol.%

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(Contd. of page 3) 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 8 for information on personal protection equipment.

SECTION 7: Handling and storage

See Section 13 for disposal information.

· 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. 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: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs. Further information about storage conditions: 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

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

28182	2-81-2 Hexamethylene diisocyanate, oligomers	
EBW	Short-term value: 0.5 mg/m ³ exposition evaluation valu TRGS 430 (EBW)	
108-6	5-6 2-Methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk	
123-8	6-4 n-Butyl acetate	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
112-0	7-2 2-Butoxyethyl acetate	
WEL	Short-term value: 332 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Sk	

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77-58-7 dibutyltin dilaurate

WEL Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk

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

· 8.2 Exposure controls

· Personal protective equipment:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · 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.

Protection of hands:

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



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 protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- \cdot 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

 Form:
 Fluid

 Colour:
 According to product specification

 Odour:
 Characteristic

 Odour threshold:
 Not determined.

 • pH-value:
 Not determined.

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 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. : 124-128 °C
· Flash point:	23 °C (DIN EN ISO 1523:2002)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	280 °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: Upper:	0.7 Vol % 10.8 Vol %
· Vapour pressure at 20 °C:	10.7 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate 	0.992 g/cm ³ (DIN EN ISO 2811-1) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
 Viscosity: Dynamic: Kinematic at 20 °C: 	Not determined. 30 s (DIN 53211/4)
· Solvent content: VOC (EC)	64.07 %
Solids content (weight-%):	35.9 %
· 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:

Possible in traces. Nitrogen oxides Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid) Carbon monoxide

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Nitrogen oxides (NOx)

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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:

112-07-2 2-Butoxyethyl acetate

Oral LD50 1,880 mg/kg (rat)

Dermal LD50 1,480 mg/kg (rabbit)

64742-95-6 Hydrocarbons, C9, aromatics

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Additional toxicological information:
- · 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. May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- 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.

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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	011203
ADR	UN1263 PAINT RELATED MATERIAL
IMDG, IATA	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
Class Label	3 Flammable liquids. 3
<i>14.4 Packing group ADR, IMDG, IATA</i>	<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:	
EMS NUMBER: Stowage Category	<i>F-E,<u>S-E</u> A</i>
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Transport category Tunnel restriction code	3 D/E

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· 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
- 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, 20

· Regulation (EU) No 649/2012

77-58-7 dibutyltin dilaurate

Annex I Part 1

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· 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

- 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.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H360FD May damage fertility. May damage the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic 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.

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Abbreviations and acronyms:	
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. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1C: Skin corrosion/irritation – Category 1C	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Muta. 2: Germ cell mutagenicity – Category 2	
Repr. 1B: Reproductive toxicity – Category 1B	
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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.	
	- GB -