

according to 1907/2006/EC, Article 31

Printing date 30.08.2023 Version number 79 (replaces version 78)

Revision: 30.08.2023

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

- · 1.1 Product identifier
- · Trade name: Mipa 2K-Struktur-Härter A 61
- 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

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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.



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 GB CLP regulation.

· Hazard pictograms





GHS02 GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

Hexamethylene diisocyanate, oligomers

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

Hydrocarbons, C9, aromatics

n-Butyl acetate

Hazard statements

H226 Flammable liquid and vapour.

May cause an allergic skin reaction. H317

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking. EUH204 Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

· 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:				
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	Hexamethylene diisocyanate, oligomers  Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	25-50%		
CAS: 53880-05-0 NLP: 500-125-5	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers  \$\frac{1}{2}\$ Skin Sens. 1, H317; STOT SE 3, H335, EUH204	25-50%		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate  Trianskip Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	<15%		
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H335-H336, EUH066	≥2.5-<15%		
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	Ethyl acetate  Tlam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<10%		

<sup>·</sup> 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.

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· After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

 $\cdot$  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 (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

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 section 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 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.

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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

### Ingredients with limit values that require monitoring at the workplace:

#### 28182-81-2 Hexamethylene diisocyanate, oligomers

EBW Short-term value: 0.5 mg/m3

exposition evaluation valu TRGS 430 (EBW)

### 123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

141-78-6 Ethyl acetate

WEL | Short-term value: 1468 mg/m³, 400 ppm

Long-term value: 734 mg/m³, 200 ppm

- 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

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:

Filter 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.

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#### · Hand protection

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

Fluorocarbon rubber (Viton)

Recommended thickness of the material: > 0.7 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

For the mixture of chemicals the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

· 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** 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 77-78 °C (141-78-6 Ethyl acetate)
• Flammability Flammable.

· Lower and upper explosion limit

· **Lower:** 0.7 Vol % (64742-95-6 Hydrocarbons, C9,

aromatics)

Not miscible or difficult to mix.

· **Upper:** 7.5 Vol % (123-86-4 n-Butyl acetate)

• Flash point: 25 °C (DIN 53213)

· **Auto-**ignition temperature: 370 °C (DIN 51794, 123-86-4 n-Butyl acetate)

• **Decomposition temperature:** Not determined. • **pH** Not determined.

· Viscosity:

• Kinematic viscosity at 20 °C 25 s (DIN 53211/4) • Dynamic: Not determined.

· Solubility · water:

Partition coefficient n-octanol/water (log

Partition coemicient n-octanoi/water (log

value) Not determined.

• Vapour pressure at 20 °C: 97 hPa (141-78-6 Ethyl acetate)

· Vapour pressure at 50 °C: 360 hPa

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· Density and/or relative density

· Density at 20 °C: 1.042 g/cm3 (DIN 53217)

· Relative density Not determined. · Vapour density Not determined.

· 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) 35.21 % · Solids content (weight-%): 64.8 %

Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes

· Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void

Flammable liquid and vapour. Flammable liquids

Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Void · Pyrophoric solids 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 (HCI)

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 hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

## **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
- · 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

### 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 UN1263 PAINT RELATED MATERIAL

· IMDG, IATA PAINT RELATED MATERIAL

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(Contd. of page 7) · 14.3 Transport hazard class(es) · ADR · Class 3 (F1) Flammable liquids. · Label · IMDG, IATA 3 Flammable liquids. · Class ·Label 3 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-E · 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 · 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

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- · National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II:

Class	Share in %
NK	25-50

· 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 vap	our.
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H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic 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)

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

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

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

\* Data compared to the previous version altered.