

# Safety data sheet

according to 1907/2006/EC, Article 31 Version number 23 (replaces version 22)

Revision: 14.09.2023

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

· 1.1 Product identifier

- · Trade name: Mipa 2K-MS-Härter MS 25
- **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 8703 92 20
  Fax.: +49 8703 92 21 00
  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.



Skin Sens. 1H317May cause an allergic skin reaction.STOT SE 3H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

#### · 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 Warning

- Hazard-determining components of labelling: Hexamethylene diisocyanate, oligomers n-Butyl acetate
  2-Methoxy-1-methylethyl acetate Xylene
  Hazard statements H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
  Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Contd. on page 2)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.09.2023 Ver

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Revision: 14.09.2023

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	(Contd. of page 1)
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P303+P361+P35	3 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 infor	mation:
EUH066 Repeate	ed exposure may cause skin dryness or cracking.
	s isocyanates. May produce an allergic reaction.
Restricted to prof	
· 2.3 Other hazard	
Results of PBT	and vPvB assessment
• PBT: Not applica	ble
• <b>vPvB:</b> Not applic	

#### SECTION 3: Composition/information on ingredients

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

<ul> <li>Dangerous components:</li> </ul>		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate Tlam. Liq. 3, H226; () STOT SE 3, H336, EUH066	25-50%
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: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate Flam. Liq. 3, H226; () STOT SE 3, H336	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene ♦ 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	2.5-<5%

• 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.
- · After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

GB -



# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 23 (replaces version 22)

Revision: 14.09.2023

Trade name: Mipa 2K-MS-Härter MS 25

(Contd. of page 2)

• **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 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.

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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.

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.

(Contd. on page 4)



# Safety data sheet

according to 1907/2006/EC, Article 31 Version number 23 (replaces version 22)

Revision: 14.09.2023

Trade name: Mipa 2K-MS-Härter MS 25

(Contd. of page 3)

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:

123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

28182-81-2 Hexamethylene diisocyanate, oligomers

EBW Short-term value: 0.5 mg/m<sup>3</sup>

exposition evaluation valu TRGS 430 (EBW)

#### 108-65-6 2-Methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm Long-term value: 274 mg/m<sup>3</sup>, 50 ppm Sk

#### 1330-20-7 Xylene

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm Long-term value: 220 mg/m<sup>3</sup>, 50 ppm Sk: BMGV

· 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
- 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.

(Contd. on page 5)

GB



# Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 14.09.2023

Printing date 14.09.2023

Version number 23 (replaces version 22)

Trade name: Mipa 2K-MS-Härter MS 25

(Contd. of page 4)

· 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.

· 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

Butyl rubber, BR Recommended thickness of the material:  $\geq 0.7$  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.

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: · Odour: Characteristic · Odour threshold: Not determined. • Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range · Flammability Flammable. · Lower and upper explosion limit 1.2 Vol % · Lower: · Upper: 10.8 Vol % 27 °C (DIN 53213) · Flash point: · Auto-ignition temperature: · Decomposition temperature: Not determined. · pH Not determined. · Viscosity: Kinematic viscosity at 20 °C · Dynamic: Not determined. · Solubility · water:

According to product specification

124-128 °C (123-86-4 n-Butyl acetate)

315 °C (DIN 51794)

10-15 s (DIN 53211/4)

Not miscible or difficult to mix.

(Contd. on page 6)

GB



# Safety data sheet according to 1907/2006/EC, Article 31

Revision: 14.09.2023

# Printing date 14.09.2023

#### Version number 23 (replaces version 22)

	(Contd. of page 5
Partition coefficient n-octanol/water (log	
value)	Not determined.
· Vapour pressure at 20 °C:	10.7 hPa
Vapour pressure at 50 °C:	55 hPa
Density and/or relative density	
· Density at 20 °C:	0.976 g/cm³ (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of hea	alth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o
	explosive air/vapour mixtures are possible.
Solvent content:	
VOC (EC)	63.95 %
Solids content (weight-%):	36.0 %
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	VOIG
flammable gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void 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

(Contd. on page 7)

# Professional Goating Systems

# Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 14.09.2023

Printing date 14.09.2023

Version number 23 (replaces version 22)

Trade name: Mipa 2K-MS-Härter MS 25

(Contd. of page 6)

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.
- **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
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) : slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or

sewage system.

#### 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	
<sup>·</sup> 14.2 UN proper shipping name		
ADR	UN1263 PAINT RELATED MATERIAL	
· IMDG, IATA	PAINT RELATED MATERIAL	
	(Contd. on page	



# Safety data sheet

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Version number 23 (replaces version 22)

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Trade name: Mipa 2K-MS-Härter MS 25

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

(Contd. on page 9)



# Safety data sheet

according to 1907/2006/EC, Article 31

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#### Printing date 14.09.2023 Version number 23 (replaces version 22)

Trade name: Mipa 2K-MS-Härter MS 25

(Contd. of page 8)

• National regulations:

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

Class Share in %

50-100 NK

· 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

- Flammable liquid and vapour. H226
- H304 May be fatal if swallowed and enters airways.
- Harmful in contact with skin. H312
- H315 Causes skin irritation.
- 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.
- May cause damage to organs through prolonged or repeated exposure. H373

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. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 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 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 \*\* Data compared to the previous version altered.