

Printing date 23.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31 Version number 16 (replaces version 15)

Revision: 23.01.2023

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

· 1.1 Product identifier

- · Trade name: Mipa 2K-MS-Härter MS 40
- **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.



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 2-Methoxy-1-methylethyl acetate n-Butyl acetate

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 sources. No smoking.

(Contd. on page 2)

GB



according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 16 (replaces version 15)

Revision: 23.01.2023

Trade name: Mipa 2K-MS-Härter MS 40

	(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+P3	53 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:		
EUH204 Contai	ns isocyanates. May produce an allergic reaction.	
Restricted to pro	ofessional users.	
· 2.3 Other haza	rds	
· Results of PBT and vPvB assessment		
· PBT: Not applicable.		
• vPvB: Not appl	icable.	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

 Dangerous components: 		
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, EUH204	
CAS: 108-65-6	2-Methoxy-1-methylethyl acetate	25-50%
EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	🚸 Flam. Liq. 3, H226; () STOT SE 3, H336	
CAS: 123-86-4	n-Butyl acetate	≤20%
EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336, EUH066	
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	1
· Additional information: Fo	r the wording of the listed hazard phrases refer to section 16	

Additional information: For the wording of the listed nazard 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.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)

GB



Printing date 23.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 23.01.2023

Trada nama: Nina 2K MC Ulintar M

Version number 16 (replaces version 15)

Trade name: Mipa 2K-MS-Härter MS 40

(Contd. of page 2)

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 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.%
d the same decontaminant to any resi	dues and allow

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.

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.

(Contd. on page 4)



according to 1907/2006/EC, Article 31

Revision: 23.01.2023

Printing date 23.01.2023

Version number 16 (replaces version 15)

Trade name: Mipa 2K-MS-Härter MS 40

(Contd. of page 3)

• 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)
- 108-65-6 2-Methoxy-1-methylethyl acetate
- WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

123-86-4 n-Butyl acetate

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

112-07-2 2-Butoxyethyl acetate

WEL Short-term value: 332 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Sk

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

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 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.

· Hand protection



Protective gloves (EN 374)

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

(Contd. on page 5)

⁻⁻⁻⁻ GB



Printing date 23.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 23.01.2023

Version number 16 (replaces version 15)

Trade name: Mipa 2K-MS-Härter MS 40

(Contd. of page 4)

Material of gloves
 Butyl rubber, BR

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.

· Eye/face protection



Tightly sealed goggles

9.1 Information on basic physical and che	emical 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	124-128 °C (123-86-4 n-Butyl acetate)
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	1.2 Vol %
Upper:	10.8 Vol %
Flash point:	27 °C (DIN 53213)
Ignition temperature:	280 °C (DIN 51794)
Decomposition temperature:	Not determined.
рН	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:	10.7 hPa
Density and/or relative density	
Density at 20 °C:	1.006 g/cm³ (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of he	ealth
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
r pp	explosive air/vapour mixtures are possible.
Solvent content:	
VOC (EC)	64.00 %



according to 1907/2006/EC, Article 31

Revision: 23.01.2023

Printing date 23.01.2023

Trade name: Mipa 2K-MS-Härter MS 40

01.2023 Version number 16 (replaces version 15)

		(Contd. of pag
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		
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

 \cdot 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.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

(Contd. on page 7)

GE



according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 16 (replaces version 15)

Revision: 23.01.2023

Trade name: Mipa 2K-MS-Härter MS 40

(Contd. of page 6)

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.

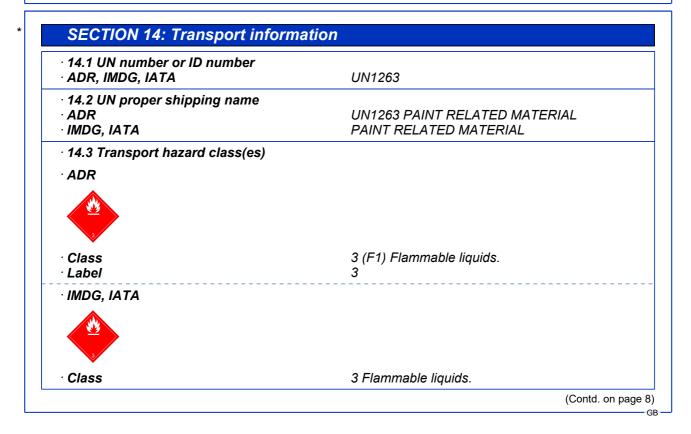
SECTION 13: Disposal considerations

- · 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.





according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 16 (replaces version 15)

Revision: 23.01.2023

Trade name: Mipa 2K-MS-Härter MS 40

	(Contd. of pag
Label	3
14.4 Packing group ADR, IMDG, IATA	
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	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
- 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
- · 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.
- H312 Harmful in contact with skin.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

(Contd. on page 9)

GB



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

Printing date 23.01.2023

Version number 16 (replaces version 15)

Revision: 23.01.2023

Trade name: Mipa 2K-MS-Härter MS 40

	(Contd. of page 8)
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 usin according to Regulation (EC) No 1272/2008.	ig substance data
· Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemi Concerning the International Transport of Dangerous Goods by Rail)	n de fer (Regulations
ICAO: International Civil Aviation Organisation	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European A the International Carriage of Dangerous Goods by Road)	greement Concerning
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. Lig. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Sens. 1: Skin sensitisation – Čategory 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	
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