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# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/01/2023 Reviewed on 03/01/2023

### 1 Identification

- · Product identifier
- · Trade name: Mipa 2K-HS-Härter HS 35
- · Application of the substance / the mixture Hardening agent/ Curing agent
- · 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

Emergency telephone number:

International: 011 49(0)700 24112112 (MIP)

US: +1 872 5888271 (MIP)

US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

## 2 Hazard(s) identification

#### · Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H335-H336 May cause respiratory irritation.

May cause drowsiness or

dizziness.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

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

Hexamethylene diisocyanate, oligomers

2-Butoxyethyl acetate

2-Methoxy-1-methylethyl acetate

n-Butyl acetate

· Hazard statements

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

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

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#### · Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/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.

### · Classification system:

NFPA ratings (scale 0 - 4)



Health = 0 Fire = 3 Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 3 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
28182-81-2	Hexamethylene diisocyanate, oligomers	50-100%
112-07-2	2-Butoxyethyl acetate	10-25%
108-65-6	2-Methoxy-1-methylethyl acetate	10-25%
123-86-4	n-Butyl acetate	5-<10%

### 4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

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· Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 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.

· 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.

Protective Action Criteria for Chemicals

28182-81-2	Hexamethylene diisocyanate, oligomers	7.8 mg/m³
112-07-2	2-Butoxyethyl acetate	15 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm
123-86-4	n-Butyl acetate	5 ppm
822-06-0	hexamethylene-di-isocyanate	0.018 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m³
PAC-2:		
28182-81-2	Hexamethylene diisocyanate, oligomers	86 mg/m³
112-07-2	2-Butoxyethyl acetate	35 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	1,000 ppm
123-86-4	n-Butyl acetate	200 ppm
822-06-0	hexamethylene-di-isocyanate	0.2 ppm
77-58-7	dibutyltin dilaurate	8 mg/m³
PAC-3:		·
28182-81-2	Hexamethylene diisocyanate, oligomers	510 mg/m <sup>-</sup>
112-07-2	2-Butoxyethyl acetate	210 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
123-86-4	n-Butyl acetate	3000* ppm
822-06-0	hexamethylene-di-isocyanate	3 ppm



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77-58-7 dibutyltin dilaurate

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48 mg/m<sup>3</sup>

## 7 Handling and storage

- Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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: Store away from foodstuffs.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

112-07	7-2 2-Butoxyethyl acetate		
REL	Long-term value: 33 mg/m³, 5 ppm		
TLV	Long-term value: 20 ppm A3		
108-65	108-65-6 2-Methoxy-1-methylethyl acetate		
WEEL	WEEL Long-term value: 50 ppm		
123-86	123-86-4 n-Butyl acetate		
PEL	Long-term value: 710 mg/m³, 150 ppm		
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm		
TLV	Short-term value: 150 ppm Long-term value: 50 ppm		

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Filter A/P2

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In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### · Protection of hands:



Protective gloves

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: ≥ 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 Value for the permeation: Level  $\leq 2$
- · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

· Information on basic physical and	chemical properties
· Appearance:	
Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition  Melting point/Melting range:  Boiling point/Boiling range:	Undetermined. 124-128 °C (255.2-262.4 °F)
· Flash point:	30 °C (86 °F) (DIN 53213)
· Flammability (solid, gaseous):	Flammable.
· Ignition temperature:	280 °C (536 °F) (DIN 51794)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %

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· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)	
Density at 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal) (DIN 53217)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C (68 °F):	18 s (DIN 53211/4)	
· Solvent content:		
VOC content:	45.89 %	
	482 g/l / 4.0 lb/gal	
Solids content (weight-%):	54.1 %	
· Other information	No further relevant information available.	

# 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide

# 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

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### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA UN1263

· UN proper shipping name

· DOT · ADR Paint related material

**UN1263 PAINT RELATED MATERIAL** 

· IMDG, IATA PAINT RELATED MATERIAL

- · Transport hazard class(es)
- · DOT



· Class 3 Flammable liquids

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(Contd. of page 7) · Label · ADR · Class 3 (F1) Flammable liquids · Label · IMDG, IATA 3 Flammable liquids ·Class · Label 3 · Packing group · DOT, ADR, IMDG, IATA III· Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-E · Stowage Category Α · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: Limited quantities (LQ) 5L · IMDG · Limited quantities (LQ) 5L · UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL, 3, III

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

	Cara	
	Section 355 (extremely hazardous substances):	
	None of the ingredient is listed.	
Ī	· Section 313 (Specific toxic chemical listings):	
Ī	112-07-2 2-Butoxyethyl acetate	
Į	822-06-0 hexamethylene-di-isocyanate	
Ī	· Hazardous Air Pollutants	
Ī	822-06-0 hexamethylene-di-isocyanate	

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#### · Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### Cancerogenity categories

### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### TLV (Threshold Limit Value)

(	,		
112-07-2	2-Butoxyethyl acetate	A3	10-25%
77-58-7	dibutyltin dilaurate	A4	<0.1%

### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms





GHS02 GHS07

### · Signal word Warning

#### · Hazard-determining components of labeling:

Hexamethylene diisocyanate, oligomers

2-Butoxyethyl acetate

2-Methoxy-1-methylethyl acetate

n-Butyl acetate

#### Hazard statements

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

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/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/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.

### · National regulations:

## · Additional classification according to Decree on Hazardous Materials:

Class	Share in %
NK	25-50

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 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.

- · Contact:
- · Date of preparation / last revision 03/01/2023
- · 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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids - Category 3

Acute Toxicity - Inhalation 4: Acute toxicity - Category 4

Sensitization - Skin 1: Skin sensitisation - Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

\* \* Data compared to the previous version altered.

USA