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Safety Data Sheet

acc. to OSHA HCS

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

1 Identification

- · Product identifier
- Trade name: Mipa 2K-HS-Härter HS 10
- · 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.



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.



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 GHS08

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

Hexamethylene diisocyanate, oligomers dibutyltin dilaurate

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n-Butyl acetate

2-Ethoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.H360 May damage fertility or the unborn child.

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.

· Classification system:

NFPA ratings (scale 0 - 4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1
FIRE 3
REACTIVITY 0

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%		
123-86-4	n-Butyl acetate	25-50%		
54839-24-6	2-Ethoxy-1-methylethyl acetate	10-25%		
77-58-7	dibutyltin dilaurate	≥0.1-<1%		

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.

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- · 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.
- · 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

- · 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			
	123-86-4 n-Butyl acetate				
77-58-7	dibutyltin dilaurate				
822-06-0	hexamethylene-di-isocyanate 0.01				
PAC-2:		<u> </u>			
28182-81-2	Hexamethylene diisocyanate, oligomers	86 mg/m			
123-86-4	n-Butyl acetate	200 ppm			
77-58-7	8-7 dibutyltin dilaurate				
822-06-0	hexamethylene-di-isocyanate C				
PAC-3:					
28182-81-2	1-2 Hexamethylene diisocyanate, oligomers				
123-86-4	4 n-Butyl acetate 30				
77-58-7	dibutyltin dilaurate 48 n				



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822-06-0 hexamethylene-di-isocyanate

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3 ppm

7 Handling and storage

- Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · 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 other constituents have no known exposure limits.

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

77-58-7 dibutyltin dilaurate

PEL Long-term value: 0.1 mg/m³

as Sn

REL | Long-term value: 0.1 mg/m³

as Sn, Skin

TLV Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³

as Sn; A4; Skin

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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· Breathing equipment:

Filter A/P2



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:

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



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 ≤ 3
- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · 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: Undetermined.

Boiling point/Boiling range: 124-128 °C (255.2-262.4 °F)

• Flash point: 27 °C (80.6 °F) (DIN 53213)

· Flammability (solid, gaseous): Flammable.

Ignition temperature: 370 °C (698 °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.

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Trade name: Mipa 2K-HS-Härter HS 10

		(Contd. of page
Explosion limits:		
Lower:	1.2 Vol %	
Upper:	7.5 Vol %	
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)	
Density at 20 °C (68 °F):	1.029 g/cm³ (8.587 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):	10-15 s (DIN 53211/4)	
Solvent content:		
VOC content:	45.50 %	
	468 g/l / 3.9 lb/gal	
Solids content (weight-%):	54.5 %	
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:
- · LD/LC50 values that are relevant for classification:

28182-81-2 Hexamethylene diisocyanate, oligomers

Inhalative LC50/4 h 1.5 mg/l (rat)

- 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

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· 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.

· 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.

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· UN-Number	
· DOT, ADR, IMDG, IATA	UN1263

· UN proper shipping name

· DOT Paint related material

· ADR **UN1263 PAINT RELATED MATERIAL** · IMDG, IATA

PAINT RELATED MATERIAL

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(Contd. of page 7) · Transport hazard class(es) ·DOT 3 Flammable liquids · Class · Label · ADR 3 (F1) Flammable liquids · Class · Label · IMDG, IATA · Class 3 Flammable liquids · 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 · Segregation groups (SGG1) Acids · Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L ·IMDG · Limited quantities (LQ) 5L · UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL, 3, III

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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

822-06-0 hexamethylene-di-isocyanate

· Hazardous Air Pollutants

822-06-0 hexamethylene-di-isocyanate

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)

77-58-7 dibutyltin dilaurate

A4 ≥0.1-<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 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

Hexamethylene diisocyanate, oligomers

dibutyltin dilaurate

n-Butyl acetate

2-Ethoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.H360 May damage fertility or the unborn child.

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.

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Trade name: Mipa 2K-HS-Härter HS 10

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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

· 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) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Toxic to Reproduction 1B: Reproductive toxicity - Category 1B

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

* Data compared to the previous version altered.

USA