

according to 1907/2006/EC, Article 31

Version number 59 (replaces version 58)

Revision: 19.01.2023

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

- · 1.1 Product identifier
- [·] Trade name: <u>Mipa 2K-Härter H</u> 10
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- · **Product category** PC9a Coatings and paints, thinners, paint removers
- · 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. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335-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
- Hazard statements
- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.



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H335-H336 May c	ause respiratory irritation. May cause drowsiness or dizziness.
Precautionary sta	atements
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	F 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 inforn	nation:
EUH066 Repeated	d exposure may cause skin dryness or cracking.
EUH204 Contains	isocyanates. May produce an allergic reaction.
Restricted to profe	essional users.
2.3 Other hazards	S
Results of PBT a	nd vPvB assessment
PBT: Not applicab	ole.
vPvB: Not applica	ble.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

Dangerous components:		
	n-Butyl acetate	50-100%
	Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	25-50%
	2-Methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%
	2-Butoxyethyl acetate Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-<5%
Reg.nr.: 01-2119475112-47		

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.

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(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** Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen cyanide (HCN)
- 5.3 Advice for firefighters
 Brotective againment: Mouth respiratory protection
- · Protective equipment: Mouth respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions: Keep contaminated washing water and dispose of appropriately. 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!): 45 Vol.% water 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** Use only in well ventilated areas.

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Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Prevent formation of aerosois. 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: Store only in the original receptacle. • 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 ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
28182-81-2 Hexamethylene diisocyanate, oligomers
EBW Short-term value: 0.5 mg/m ³
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
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: Apply solvent resistant skin cream before starting work. Do not eat, drink, smoke or sniff while working. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

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· 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: > 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 ≤ 2

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· Eye/face protection



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

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	1
boiling range	124-128 °C (123-86-4 n-Butyl acetate)
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	1.2 Vol % (123-86-4 n-Butyl acetate)
Upper:	7.5 Vol % (123-86-4 n-Butyl acetate)
Flash point:	27 °C (DIN 53213)
Ignition temperature:	315 °C (DIN 51794, 108-65-6 2-Methoxy-1
3 • • • • • • •	methylethyl acetate)
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C	10-15 s (DIN 53211/4)
Dynamic:	Not determined.



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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 (123-86-4 n-Butyl acetate)
Density and/or relative density	
· Density at 20 °C:	0.974 g/cm³ (DIN 53217)
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
· Form:	Fluid
 Important information on protection of heat 	alth
and environment, and on safety.	
• Auto-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)	63.92 %
Solids content (weight-%):	36.1 %
Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical haza	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
	Void
[·] Organic peroxides	
Organic peroxides Corrosive to metals 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 Reacts with alcohols, amines, aqueous acids and alkalis.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
- Carbon monoxide and carbon dioxide

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Possible in traces. Nitrogen oxides 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.

· LD/LC50 values relevant for classification:

123-86-4 n-Butyl acetate

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

- 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.

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 be specially treated adhering to official regulations.

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.

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· Recommended cleansing agents: Diluted caustic solution.

SECTION 14: Transport information	
14.1 UN number or ID number ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name ADR MDG, IATA	UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL
4.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label MDG, IATA	3
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards: Narine pollutant:	No
4.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	30 F-E,S-E
Stowage Category	<i>г-</i> с, <u>s-с</u> А
4.7 Maritime transport in bulk according to MO instruments	Not applicable.
Fransport/Additional information:	
ADR	
Limited quantities (LQ)	5L
ransport category	3
Funnel restriction code	D/E
MDG .imited quantities (LQ)	5L
JN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

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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.

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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- 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 Sens. 1: Skin sensitisation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- * * Data compared to the previous version altered.

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