

Printing date 29.02.2024

# Safety data sheet

according to 1907/2006/EC, Article 31 Version number 11 (replaces version 10)

Revision: 29.02.2024

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

· 1.1 Product identifier

- Trade name: Mipa 2K-HS-Express-Klarlack CX 4
- **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 Clear coating material, Varnish
- 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 +14 Emergency, pumber: +49(0)

## • 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

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Sens. 1H317 May cause an allergic skin reaction.STOT SE 3H336 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:

n-Butyl acetate 2-Methoxy-1-methylethyl acetate Reaction mass of pentamethyl-piperidylsebacate Pentaerythritol tetrakis(3-mercaptopropionate)

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# Professional Coating Systems

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•	Hazard statement	ts
	H226 Flammable II	iquid and vapour.
	H317 May cause a	n allergic skin reaction.
		lrowsiness or dizziness.
		atic life with long lasting effects.
•	Precautionary sta	• •
	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.
	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	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.
	P501	Dispose of contents/container in accordance with local/regional/national/
		international regulations.
•	Additional inform	ation:
	EUH066 Repeated	l exposure may cause skin dryness or cracking.
	2 2 Othor hazarde	

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

## SECTION 3: Composition/information on ingredients

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

CAS: 123-86-4	n-Butyl acetate	25-50%
EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336, EUH066	
CAS: 763-69-9 EINECS: 212-112-9 Reg.nr.: 01-2119463267-34	Ethyl 3-ethoxypropionate	2.5-<10%
CAS: 110-12-3 EINECS: 203-737-8 Reg.nr.: 01-2119472300-51	5-methylhexan-2-one	<i>≥</i> 2.5-<3%
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	2.5-<10%
CAS: 1065336-91-5 EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of pentamethyl-piperidylsebacate Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; N Skin Sens. 1A, H317	<i>≥</i> 0.25-<1%
CAS: 77-99-6 EINECS: 201-074-9	1,1,1-Trimethylolpropane	<1%



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CAS: 7575-23-7	Pentaerythritol tetrakis(3-mercaptopropionate)	<i>≥</i> 0.25-<1%
EINECS: 231-472-8	♦ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1,	
Reg.nr.: 01-2119486981-23	H410 (M=10); 🔿 Acute Tox. 4, H302; Skin Sens. 1A,	
-	H317	
CAS: 77-58-7	dibutyltin dilaurate	≥0.25-<0.3%
EINECS: 201-039-8	Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1,	-
Reg.nr.: 01-2119496068-27	H370; STOT RE 1, H372; 🚯 Aquatic Acute 1, H400;	
-	Aquatic Chronic 1, H410; 🔥 Eye Irrit. 2, H319; Skin	
	Sens. 1, H317	
• Additional information: Fo	r the wording of the listed hazard phrases refer to sectio	n 16.

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.

#### · 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. If symptoms persist, consult a doctor.

- 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.

## SECTION 5: Firefighting measures

- <sup>•</sup> 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
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## 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 product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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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.
- *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.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- · 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

110-12-3 5-methylhexan-2-one

- WEL Short-term value: 475 mg/m<sup>3</sup>, 100 ppm Long-term value: 95 mg/m<sup>3</sup>, 20 ppm Sk
- 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

77-58-7 dibutyltin dilaurate

WEL Short-term value: 0.2 mg/m<sup>3</sup> Long-term value: 0.1 mg/m<sup>3</sup> as Sn; Sk

• 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
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- Respiratory protection:



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.

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#### · 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

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

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye/face protection



Tightly sealed goggles

## **SECTION 9: Physical and chemical properties**

General Information	nical 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	
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 EN ISO 1523:2002, 123-86-4 n-Bu acetate)
Auto-ignition temperature:	370 °C (DIN 51794, 123-86-4 n-Butyl acetate)
Decomposition temperature:	Not determined.
· μΗ	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C	20 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 (123-86-4 n-Butyl acetate)
Vapour pressure at 50 °C:	55 hPa
Density and/or relative density	
Density at 20 °C:	1.003 g/cm³ (DIN EN ISO 2811-1)

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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 of
	explosive air/vapour mixtures are possible.
Solvent content:	
VOC (EC)	41.70 %
Solids content (weight-%):	58.3 %
Change in condition	
Evaporation rate	Not determined.
classes Explosives	Void
Flammable gases Aerosols	Void Void
	Void
Oxidising gases Gases under pressure	Void
Flammable liquids	
Flammable solids	Flammable liquid and vapour. Void
Solf-roactive substances and mixtures	
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void Void
Pyrophoric liquids Pyrophoric solids	Void Void Void
Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void
Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Void Void Void Void
Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Void
Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Void
Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void
Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void 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: Carbon monoxide

## 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.

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· STOT-single exposure 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
- For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) : extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## **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.

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	UN1263 PAINT, ENVIRONMENTALL' HAZARDOUS
IMDG	PAINT (Polythiols, benzotriazole derivative) MARINE POLLUTANT
IATA	PAINT

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14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG	
Class	3 Flammable liquids.
Label	3
ΙΑΤΑ	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards:	Product contains environmentally hazardo substances: bis-(1,2,2,6,6-penthamethyl- piperidyl)sebacate
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code) EMS Number:	: 30 F-E,S-E
Segregation groups	(SG <u>G</u> 1) Acids
Stowage Category	À
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 $(I, \Omega)$	5L
Limited quantities (LQ)	

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## SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

#### · Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category
- E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II:

Class Share in %

NK 25-50

· 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.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H360FD May damage fertility. May damage the unborn child.
- H361 Suspected of damaging fertility or the unborn child.
- H361f Suspected of damaging fertility.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### 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.

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(Contd. of page 9) Abbreviations and acronyms: 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 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Muta. 2: Germ cell mutagenicity – Category 2 Repr. 1B: Reproductive toxicity - Category 1B Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 \* Data compared to the previous version altered. GF