

acc. to OSHA HCS

Printing date 02/29/2024

Reviewed on 02/29/2024

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1 Identification

- · Product identifier
- · Trade name: Mipa 2K-HS-Express-Klarlack CX 4
- · Application of the substance / the mixture Clear coating material, Varnish
- · 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

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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.



GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H336 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 Danger
- · Hazard-determining components of labeling:

n-Butyl acetate

5-methylhexan-2-one

2-Methoxy-1-methylethyl acetate

Reaction mass of pentamethyl-piperidylsebacate

· Hazard statements

H226 Flammable liquid and vapor.

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H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H336 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 = 0 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 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 co	omponents:	
123-86-4	n-Butyl acetate	25-50%
	Ethyl 3-ethoxypropionate	2.5-<10%
110-12-3	5-methylhexan-2-one	2.5-<10%
108-65-6	2-Methoxy-1-methylethyl acetate	2.5-<10%
1065336-91-5	Reaction mass of pentamethyl-piperidylsebacate	≥0.1-<1%
	1,1,1-Trimethylolpropane	≥0.1-<1%
	Pentaerythritol tetrakis(3-mercaptopropionate)	≥0.1-<1%
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.
- 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.

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- · 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 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: No special measures required.

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 section 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

123-86-4	n-Butyl acetate	5 ppm
763-69-9	Ethyl 3-ethoxypropionate	1.6 ppm
110-12-3	5-methylhexan-2-one	50 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m³
1330-20-7	Xylene	130 ppm
100-41-4	Ethylbenzene	33 ppm
78-83-1	Isobutanol	150 ppm
540-97-6	Dodecamethylcyclohexasiloxane	150 mg/m
556-67-2	octamethylcyclotetrasiloxane	30 ppm
PAC-2:		
123-86-4	n-Butyl acetate	200 ppm
763-69-9	Ethyl 3-ethoxypropionate	18 ppm
110-12-3	5-methylhexan-2-one	69 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	1,000 ppm
77-58-7	dibutyltin dilaurate	8 mg/m³
1330-20-7	Xylene	920* ppm



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100-41-4	Ethylbenzene	1100* ppm
78-83-1	Isobutanol	1,300 ppm
540-97-6	Dodecamethylcyclohexasiloxane	1,700 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	68 ppm
PAC-3:		
123-86-4	n-Butyl acetate	3000* ppm
763-69-9	Ethyl 3-ethoxypropionate	110 ppm
110-12-3	5-methylhexan-2-one	190 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
77-58-7	dibutyltin dilaurate	48 mg/m³
1330-20-7	Xylene	2500* ppm
100-41-4	Ethylbenzene	1800* ppm
78-83-1	Isobutanol	8000* ppm
540-97-6	Dodecamethylcyclohexasiloxane	9,900 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	130 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 section 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.

123-8	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	
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110-12	?-3 5-methylhexan-2-one
PEL	Long-term value: 475 mg/m³, 100 ppm
REL	Long-term value: 240 mg/m³, 50 ppm
TLV	Short-term value: 50 ppm Long-term value: 20 ppm
108-65	-6 2-Methoxy-1-methylethyl acetate
WEEL	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.

Breathing equipment:



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

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.

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· Eye protection:



Tightly sealed goggles

Information on basic physical and o General Information	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:	Undetermined.
Boiling point/Boiling range:	124-128 °C (255.2-262.4 °F)
Flash point:	27 °C (80.6 °F) (DIN EN ISO 1523:2002)
Flammability (solid, gaseous):	Flammable.
Auto igniting:	370 °C (698 °F) (DIN 51794)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosion air/vapor mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Vapor pressure at 50 °C (122 °F):	55 hPa (41.3 mm Hg)
Density at 20 °C (68 °F):	1.003 g/cm³ (8.37 lbs/gal) (DIN EN ISO 2811-1)
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/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	20 s (DIN 53211/4)
Solvent content:	
VOC content:	41.70 %
	418 g/l / 3.5 lb/gal
Solids content (weight-%):	58.3 %



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· 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:

. 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.

· 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 3 (Self-assessment): 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.

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

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· Other adverse effects No further relevant information available.

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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	Paint	
· ADR	UN1263 PAINT, ENVIRONMENTALLY	
	HAZARDOUS	
· IMDG	PAINT (Polythiols, benzotriazole derivative),	
	MARINÈ POLLUTANT	
· IATA	PAINT	

- · Transport hazard class(es)
- ·DOT





· Class 3 Flammable liquids · Label

· ADR





3 (F1) Flammable liquids · Class · Label

·IMDG





· Class 3 Flammable liquids · Label

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·IATA



· Class 3 Flammable liquids

· Label

· Packing group

· DOT, ADR, IMDG, IATA |||

• Environmental hazards: Product contains environmentally hazardous

substances: bis-(1,2,2,6,6-penthamethyl-4-

piperidyl)sebacate

· Marine pollutant: Yes (DOT)

Symbol (fish and tree)
Special marking (ADR):
Symbol (fish and tree)

• 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:

·DOT

· Remarks: Special marking with the symbol (fish and tree).

· ADR

· Limited quantities (LQ) 5L

· IMDG

· Limited quantities (LQ) 5L

· UN "Model Regulation": UN 1263 PAINT, 3, III, ENVIRONMENTALLY

HAZARDOUS

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.

· Proposition 65

· 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.

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· Cancerogenity categories

· 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:

n-Butyl acetate

5-methylhexan-2-one

2-Methoxy-1-methylethyl acetate

Reaction mass of pentamethyl-piperidylsebacate

Hazard statements

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H336 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

· 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 02/29/2024

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

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)

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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
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