

1 Identification

Other means of identification

Trade name: Mipa 2K-HS-Klarlack CS 96

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Paint

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:

Poisons Information Line 13 11 26

International emergency number: +49(0)700 24112112 (MIP)

IMPORTER IN NEW ZEALAND:

RJP Performance Coatings

33 Ha Crescent, Wiri, Auckland

Phone 09 25000 90

Email: sales@rjp.co.nz

Web: www.rjp.co.nz

24HR EMERGENCY ASSISTANCE IN NEW ZEALAND:

National Poison Control Centre:

0800 POISON [764 766]

2 Hazard(s) Identification

Classification of the substance or mixture



GHS02 flame

Flammable liquids – Category 3

H226 Flammable liquid and vapour.



GHS08 health hazard

Reproductive toxicity – Category 2

H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin sensitisation – Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) – Category 3

H336 May cause drowsiness or dizziness.

Acute Tox. 5

H333 May be harmful if inhaled.

Skin Corr. 3

H316 Causes mild skin irritation.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS02



GHS07



GHS08

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· **Signal word** Warning

· **Hazard-determining components of labelling:**

5-Methylhexan-2-one (10-25 %)

n-Butyl acetate (≤20 %)

Xylene (5-<10 %)

2-Methoxy-1-methylethyl acetate (2.5-<10 %)

· **Hazard statements**

H226 Flammable liquid and vapour.

H333 May be harmful if inhaled.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

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

· **Dangerous components:**

123-86-4	n-Butyl acetate ⚠ Flammable liquids – Category 3, H226; ⚠ Specific target organ toxicity (single exposure) – Category 3, H336	≤20%
110-12-3	5-Methylhexan-2-one ⚠ Flammable liquids – Category 3, H226; ⚠ Reproductive toxicity – Category 2, H361; ⚠ Acute toxicity - inhalation – Category 4, H332; Acute Tox. 5, H303	10-25%
1330-20-7	Xylene ⚠ Flammable liquids – Category 3, H226; ⚠ Specific target organ toxicity (repeated exposure) – Category 2, H373; Aspiration hazard – Category 1, H304; ⚠ Acute toxicity - dermal – Category 4, H312; Acute toxicity - inhalation – Category 4, H332; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	5-<10%
108-65-6	2-Methoxy-1-methylethyl acetate ⚠ Flammable liquids – Category 3, H226; ⚠ Specific target organ toxicity (single exposure) – Category 3, H336	2.5-<10%
54839-24-6	2-Ethoxy-1-methylethyl acetate ⚠ Flammable liquids – Category 3, H226; ⚠ Specific target organ toxicity (single exposure) – Category 3, H336; Acute Tox. 5, H303	2.5-<10%

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100-41-4	Ethylbenzene ⚠ Flammable liquids – Category 2, H225; ⚠ Specific target organ toxicity (repeated exposure) – Category 2, H373; Aspiration hazard – Category 1, H304; ⚠ Acute toxicity - inhalation – Category 4, H332; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Acute Tox. 5, H303	<2.5%
112-07-2	2-Butoxyethyl acetate ⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Acute toxicity - inhalation – Category 4, H332; Flammable liquids – Category 4, H227	1-<2.5%
1065336-91-5	Reaction mass of pentamethyl-piperidylsebacate ⚠ Reproductive toxicity – Category 2, H361f; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin sensitisation – Category 1A, H317	≥0.25-<1%
104-76-7	2-Ethyl-1-hexanol ⚠ Reproductive toxicity – Category 2, H361; ⚠ Skin corrosion/irritation – Category 1A, H314; ⚠ Acute toxicity - inhalation – Category 4, H332; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335; Flammable liquids – Category 4, H227	<1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 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.
- **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

- **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
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **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 product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

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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.

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 fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

Appropriate engineering controls No further data; see section 7.

Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-Butyl acetate

WES Short-term value: 950 mg/m³, 200 ppm

Long-term value: 713 mg/m³, 150 ppm

110-12-3 5-Methylhexan-2-one

WES Long-term value: 234 mg/m³, 50 ppm

1330-20-7 Xylene

WES Short-term value: 655 mg/m³, 150 ppm

Long-term value: 350 mg/m³, 80 ppm

108-65-6 2-Methoxy-1-methylethyl acetate

WES Short-term value: 548 mg/m³, 100 ppm

Long-term value: 274 mg/m³, 50 ppm

Sk

100-41-4 Ethylbenzene

WES Short-term value: 543 mg/m³, 125 ppm

Long-term value: 434 mg/m³, 100 ppm

112-07-2 2-Butoxyethyl acetate

WES Short-term value: 333 mg/m³, 50 ppm

Long-term value: 133 mg/m³, 20 ppm

Sk

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· **DNELs**

123-86-4 n-Butyl acetate

Dermal	DNEL	6 mg/kg (general population) 11 mg/kg (Arbeiter)
Inhalative	DNEL	300 mg/m ³ (general population) 600 mg/m ³ (Arbeiter)

1330-20-7 Xylene

Dermal	DNEL	212 mg/kg (Arbeiter)
Inhalative	DNEL	221 mg/m ³ (Arbeiter)

112-07-2 2-Butoxyethyl acetate

Dermal	DNEL	169 mg/kg (Arbeiter)
Inhalative	DNEL	133 mg/m ³ (Arbeiter)

· **Additional information:** The lists valid during the making were used as basis.

· **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.

· **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.

· **Protection of hands:**

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

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9 Physical and Chemical Properties

· General Information	
· Appearance:	
· Form:	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	124-128 °C
· Flash point:	24 °C (DIN EN ISO 1523:2002)
· Flammability	Flammable.
· Auto-ignition temperature:	390 °C (DIN 51794)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
· Lower:	1.1 Vol %
· Upper:	8.5 Vol %
· Vapour pressure at 20 °C:	10.7 hPa
· Vapour pressure at 50 °C:	55 hPa
· Density at 20 °C:	0.988 g/cm ³ (DIN EN ISO 2811-1)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic at 20 °C:	27-31 s (DIN 53211/4)
· Solvent content:	
· VOC (EC)	44.70 %
· Solids content (weight-%):	55.3 %
· Other information	
· Particle characteristics	Not applicable.
· Physical state	Liquid

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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

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11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** May be harmful if inhaled.

- **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)

110-12-3 5-Methylhexan-2-one

Oral	LD50	3,200 mg/kg (rat)
Dermal	LD50	10,000 mg/kg (rabbit)

1330-20-7 Xylene

Oral	LD50	5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (rat)

108-65-6 2-Methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
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54839-24-6 2-Ethoxy-1-methylethyl acetate

Oral	LD50	4,755 mg/kg (rat)
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100-41-4 Ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,500 mg/kg (rabbit)
Inhalative	LC50/4 h	>24 mg/l (mouse)

112-07-2 2-Butoxyethyl acetate

Oral	LD50	1,880 mg/kg (rat)
Dermal	LD50	1,480 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes mild skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
- Water hazard class 2 (German Regulation) : hazardous for water

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Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

· **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 together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UN1263

· **UN proper shipping name**

· **ADG**

· **IMDG, IATA**

UN1263 PAINT

PAINT

· **Transport hazard class(es)**

· **ADG**



· **Class**

· **Label**

3 (F1) Flammable liquids.

3

· **IMDG, IATA**



· **Class**

· **Label**

3 Flammable liquids.

3

· **Packing group**

· **ADG, IMDG, IATA**

III

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

· **Hazard identification number (Kemler code):** 30

· **EMS Number:**

· **Stowage Category**

Warning: Flammable liquids.

F-E, S-E

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· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADG**

· **Limited quantities (LQ)** 5L

· **Transport category** 3

· **Tunnel restriction code** D/E

· **IMDG**

· **Limited quantities (LQ)** 5L

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

15 Regulatory information

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

· **Standard for the Uniform Scheduling of Medicines and Poisons**

110-12-3	5-Methylhexan-2-one	S5
1330-20-7	Xylene	S6
78-93-3	Methyl ethyl ketone	S5
64-19-7	acetic acid	S2, S5, S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

NEW ZEALAND:

HSR002662 Surface Coatings & Colourants (Flammable)

· **Signal word** Warning

· **Hazard-determining components of labelling:**

5-Methylhexan-2-one (10-25 %)

n-Butyl acetate (≤20 %)

Xylene (5-<10 %)

2-Methoxy-1-methylethyl acetate (2.5-<10 %)

· **Hazard statements**

H226 Flammable liquid and vapour.

H333 May be harmful if inhaled.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

· **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 %
I	10-25
II	<1
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.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Contact:**

· **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

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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Flammable liquids – Category 2: Flammable liquids – Category 2
Flammable liquids – Category 3: Flammable liquids – Category 3
Flammable liquids – Category 4: Flammable liquids – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Acute toxicity - inhalation – Category 4: Acute toxicity – Category 4
Skin corrosion/irritation – Category 1A: Skin corrosion/irritation – Category 1A
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Skin Corr. 3: Skin corrosion/irritation – Category 3
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Skin sensitisation – Category 1: Skin sensitisation – Category 1
Skin sensitisation – Category 1A: Skin sensitisation – Category 1A
Reproductive toxicity – Category 2: Reproductive toxicity – Category 2
Reproductive toxicity – Category 2: Reproductive toxicity – Category 2
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration hazard – Category 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* **Data compared to the previous version altered.**

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