

## 1 Identification

- **Product identifier**
- **Trade name: Mipa 2K-Klarlack C 180**
- **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  
e-mail: sdb-registratur@mipa-paints.com  
www.mipa-paints.com
- Fleetwood Products Inc.  
13 American Way Suite 15  
USA - NJ 08884 Spotswood  
Tel.: +1 7324169590  
e.mail: fleet089@hotmail.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 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2

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



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

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 GHS08

- **Signal word** Warning

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**Hazard-determining components of labeling:**

Xylene  
n-Butyl acetate  
Reaction mass of pentamethyl-piperidylsebacate  
Hydrocarbons, C9, aromatics

**Hazard statements**

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe 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.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 3  
Reactivity = 0

**HMS-ratings (scale 0 - 4)**



Health = 2  
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:**

123-86-4	n-Butyl acetate	≤20%
1330-20-7	Xylene	≥10-≤20%
64742-95-6	Hydrocarbons, C9, aromatics	<15%
100-41-4	Ethylbenzene	2.5-<10%
26761-45-5	2,3-Epoxypropyl neodecanoate	≥0.1-<1%
1065336-91-5	Reaction mass of pentamethyl-piperidylsebacate	≥0.1-<1%

USA

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#### 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.
- **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:**  
CO<sub>2</sub>, 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**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
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**

· **PAC-1:**

123-86-4	n-Butyl acetate	5 ppm
1330-20-7	Xylene	130 ppm
100-41-4	Ethylbenzene	33 ppm
112-07-2	2-Butoxyethyl acetate	15 ppm
868-77-9	2-Hydroxyethyl methacrylate	1.9 mg/m <sup>3</sup>
77-58-7	dibutyltin dilaurate	1.1 mg/m <sup>3</sup>
78-83-1	Isobutanol	150 ppm

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108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm
556-67-2	octamethylcyclotetrasiloxane	30 ppm
540-97-6	Dodecamethylcyclohexasiloxane	150 mg/m <sup>3</sup>
<b>· PAC-2:</b>		
123-86-4	n-Butyl acetate	200 ppm
1330-20-7	Xylene	920* ppm
100-41-4	Ethylbenzene	1100* ppm
112-07-2	2-Butoxyethyl acetate	35 ppm
868-77-9	2-Hydroxyethyl methacrylate	21 mg/m <sup>3</sup>
77-58-7	dibutyltin dilaurate	8 mg/m <sup>3</sup>
78-83-1	Isobutanol	1,300 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	1,000 ppm
556-67-2	octamethylcyclotetrasiloxane	68 ppm
540-97-6	Dodecamethylcyclohexasiloxane	1,700 mg/m <sup>3</sup>
<b>· PAC-3:</b>		
123-86-4	n-Butyl acetate	3000* ppm
1330-20-7	Xylene	2500* ppm
100-41-4	Ethylbenzene	1800* ppm
112-07-2	2-Butoxyethyl acetate	210 ppm
868-77-9	2-Hydroxyethyl methacrylate	1,000 mg/m <sup>3</sup>
77-58-7	dibutyltin dilaurate	48 mg/m <sup>3</sup>
78-83-1	Isobutanol	8000* ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
556-67-2	octamethylcyclotetrasiloxane	130 ppm
540-97-6	Dodecamethylcyclohexasiloxane	9,900 mg/m <sup>3</sup>

## 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.

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· **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.

**123-86-4 n-Butyl acetate**

PEL Long-term value: 710 mg/m<sup>3</sup>, 150 ppm

REL Short-term value: 950 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 710 mg/m<sup>3</sup>, 150 ppm

TLV Short-term value: 150 ppm  
Long-term value: 50 ppm

**1330-20-7 Xylene**

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL Short-term value: 655 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 20 ppm  
BEI, A4

**100-41-4 Ethylbenzene**

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL Short-term value: 545 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 20 ppm  
OTO, BEI, A3

· **Ingredients with biological limit values:**

**1330-20-7 Xylene**

BEI 1.5 g/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: Methylhippuric acids

**100-41-4 Ethylbenzene**

BEI 0.15 g/g creatinine  
Medium: urine  
Time: end of shift at end of workweek  
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **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.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

· **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.

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· **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.

· **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:** 24 °C (75.2 °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 explosive air/vapor mixtures are possible.

· **Explosion limits:**

**Lower:** 0.7 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)

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· <b>Density at 20 °C (68 °F):</b>	0.98 g/cm <sup>3</sup> (8.178 lbs/gal) (DIN EN ISO 2811-1)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

· **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 20 °C (68 °F):</b>	45-50 s (DIN 53211/4)

· <b>Solvent content:</b>	
<b>VOC content:</b>	51.25 % 502 g/l / 4.2 lb/gal

**Solids content (weight-%):** 48.7 %

· **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:** 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)**

1330-20-7	Xylene	3
100-41-4	Ethylbenzene	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **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 2 (Self-assessment): hazardous for water  
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.
- **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:**  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

## 14 Transport information



- |   |                     |
|---|---------------------|
| · <b>UN-Number</b>  |                     |
| · <b>DOT, ADR, IMDG, IATA</b>   | UN1263              |
| · <b>UN proper shipping name</b>  |                     |
| · <b>DOT</b>  | Paint               |
| · <b>ADR</b>  | UN1263 PAINT        |
| · <b>IMDG, IATA</b>   | PAINT               |
| · <b>Transport hazard class(es)</b>   |                     |
| · <b>DOT</b>  |                     |
|  |                     |
| · <b>Class</b>  | 3 Flammable liquids |

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· <b>Label</b>	3
· <b>ADR</b>	
	
· <b>Class</b>	3 (F1) Flammable liquids
· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	30
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, 3, III

### 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):**

1330-20-7 Xylene

100-41-4 Ethylbenzene

· **Hazardous Air Pollutants**

1330-20-7 Xylene

100-41-4 Ethylbenzene

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**· Proposition 65**

**· Chemicals known to cause cancer:**

100-41-4 Ethylbenzene

**· 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)**

1330-20-7 Xylene

I

100-41-4 Ethylbenzene

D

**· TLV (Threshold Limit Value)**

1330-20-7 Xylene

A4 ≥10-≤20%

100-41-4 Ethylbenzene

A3 2.5-<10%

**· 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 Warning**

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

Xylene

n-Butyl acetate

Reaction mass of pentamethyl-piperidylsebacate

Hydrocarbons, C9, aromatics

**· Hazard statements**

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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

**· Precautionary statements**

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

P260 Do not breathe 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.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials:**

Class	Share in %
NK	50-100

- **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 07/24/2023**
- **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)  
 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  
 BEI: Biological Exposure Limit  
 Flammable Liquids 3: Flammable liquids – Category 3  
 Skin Irritation 2: Skin corrosion/irritation – Category 2  
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Sensitization - Skin 1: Skin sensitisation – Category 1  
 Toxic to Reproduction 2: Reproductive toxicity – Category 2  
 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3  
 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
- **\* Data compared to the previous version altered.**