

1 Identification of substance

- **Product details**
- **Trade name:** IK-Klarlack C 10
- **Application of the substance / the preparation** Lacquer
- **Manufacturer/Supplier:**
 MIPA AG
 Am Oberen Moos 1
 D-84051 Essenbach
 Tel.: 0049(0) 8703-922-0
 Fax.: 0049(0) 8703-922-100
 e-mail: sdb-registratur@mipa-paints.com
www.mipa-paints.com
- **Information department:** Laboratory
- **Emergency information:** 011 49(0)700 24112112 (MIP)

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

123-86-4	n-butyl acetate	25-50%
67-64-1	acetone	10-25%
1330-20-7	xylene	10-25%
64742-95-6	Solvent naphtha (petroleum), light arom.	≤ 2.5%
108-10-1	4-methylpentan-2-one	≤ 2.5%
131-11-3	dimethyl phthalate	≤ 2.5%
108-65-6	2-methoxy-1-methylethyl acetate	≤ 2.5%
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat	<1.0%
127519-17-9	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates	<1.0%

3 Hazards identification

- **Hazard description:**



Harmful
Highly flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.
Highly flammable.

Harmful by inhalation and in contact with skin.

Irritating to eyes and skin.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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



Health = 2
Fire = 3
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

* **4 First aid measures**· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*· **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.** **5 Fire fighting measures**

· **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Protective equipment:** Mouth respiratory protective device.

* **6 Accidental release measures**

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

* **7 Handling and storage**· **Handling:**· **Information for safe handling:**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

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- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3

* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

123-86-4 n-butyl acetate

PEL ()	710 mg/m ³ , 150 ppm
REL ()	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV ()	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm

67-64-1 acetone

PEL ()	2400 mg/m ³ , 1000 ppm
REL ()	590 mg/m ³ , 250 ppm
TLV ()	Short-term value: 1782 mg/m ³ , 750 ppm Long-term value: 1188 mg/m ³ , 500 ppm BEI

1330-20-7 xylene

PEL ()	435 mg/m ³ , 100 ppm
REL ()	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV ()	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

108-10-1 4-methylpentan-2-one

PEL ()	410 mg/m ³ , 100 ppm
REL ()	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV ()	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: (205) 82 mg/m ³ , (50) NIC-20 ppm (BEI);NIC-A3

131-11-3 dimethyl phthalate

PEL ()	5 mg/m ³
REL ()	5 mg/m ³
TLV ()	5 mg/m ³

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

WEEL ()	50 ppm
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- **Additional information:** The lists that were valid during the creation 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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

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- **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:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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.

- **Penetration 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

9 Physical and chemical properties

- **General Information**

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55°C (131°F)

- **Flash point:** < 0°C (< 32°F) (DIN 53213)

- **Ignition temperature:** 370°C (698°F) (DIN 51794)

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower:	1.1 Vol %
Upper:	13.0 Vol %

- **Vapor pressure at 20°C (68°F):** 233 hPa (175 mm Hg)

- **Density at 20°C (68°F):** 0.887 g/cm³ (DIN 53217)

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

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- **Viscosity:**
Kinematic at 20°C (68°F): 13 s (DIN 53211/4)
- **Solvent content:**
Organic solvents: 81.7 %
VOC content: 57.1 %
700.1 g/l / 5.84 lb/gl
- **Solids content (weight-%):** 18.3 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** Carbon monoxide

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	> 6800 mg/kg (rat)
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Dermal	LD50	> 3400 mg/kg (rab)
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Inhalative	LC50/4 h	> 10.2 mg/l (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **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.
Harmful to aquatic organisms

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13 Disposal considerations

- **Product:**
- **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

· DOT regulations:


- **Hazard class:** 3
- **Identification number:** UN1263
- **Packing group:** II
- **Proper shipping name (technical name):** PAINT
- **Label:** 3

· Land transport ADR/RID (cross-border):


- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1263
- **Packaging group:** II
- **Label:** 3
- **Description of goods:** 1263 PAINT, special provision 640D

· Maritime transport IMDG:


- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** PAINT

· Air transport ICAO-TI and IATA-DGR:


- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263

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· **Label** 3
 · **Packaging group:** II
 · **Propper shipping name:** PAINT

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7 xylene

108-10-1 4-methylpentan-2-one

131-11-3 dimethyl phthalate

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **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.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

67-64-1 acetone

I

1330-20-7 xylene

I

108-10-1 4-methylpentan-2-one

I

131-11-3 dimethyl phthalate

D

· **IARC (International Agency for Research on Cancer)**

1330-20-7 xylene

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1 acetone

A4 10-25%

1330-20-7 xylene

A4 10-25%

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

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· **Hazard symbols:**

Harmful
Highly flammable

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

xylene

· **Risk phrases:**

Highly flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes and skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

Keep out of the reach of children.
Keep container in a well-ventilated place.
Keep away from food, drink and animal feedingstuffs.
Keep away from sources of ignition - No smoking.
Wear suitable protective clothing and gloves.
If swallowed, seek medical advice immediately and show this container or label.

· **National regulations:**

· **Information about limitation of use:**

None of the ingredients is listed.

Class	Share in %
NK	50-100

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.

- **Department issuing MSDS:** MIPA AG, Abteilung Umweltschutz
- **Contact:** Michaela Knall
- *** Data compared to the previous version altered.**