acc. to OSHA HCS



Reviewed on 11/28/2018

Printing date 06/25/2021

1 Identification

· Product identifier

- Trade name: Mipa 2K-Klarlack C 210 LV Low VOC
- · 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 Emergency telephone number:

Fleetwood Products Inc. 13 American Way Suite 15 USA - NJ 08884 Spotswood Tel.: +1 7324169590 e.mail: fleet089@hotmail.com

2 Hazard(s) identification

011 49(0)700 24112112 (MIP)

· Classification of the substance or mixture



Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

GHS07

Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 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



- Signal word Danger
- · Hazard-determining components of labeling: acetone **Xylene** n-Butyl acetate ethylbenzene · Hazard statements

H225 Highly flammable liquid and vapor.

(Contd. on page 2)

⁻ USA

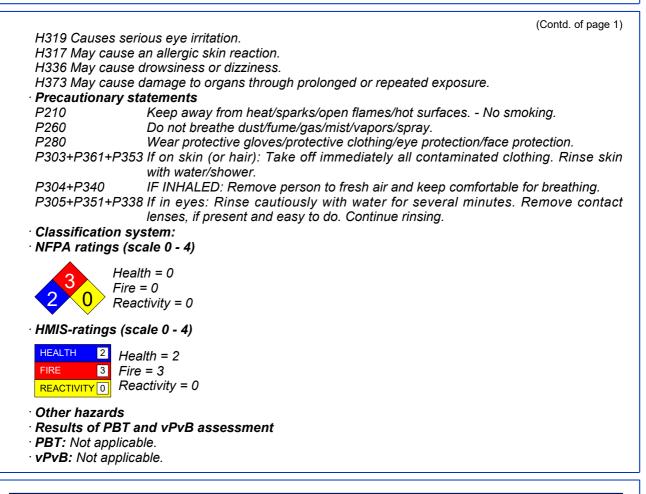
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

[.] Dangerous	components:	
67-64-1	acetone	10-25%
123-86-4	n-Butyl acetate	10-25%
64742-95-6	Hydrocarbons, C9, aromatics	5-<10%
1330-20-7	Xylene	2.5-<5%
100-41-4	ethylbenzene	<2.5%
	Reaction mass of pentamethyl-piperidyl sebacate	<i>≥</i> 0.1-<1%
26761-45-5	2,3-epoxypropyl neodecanoate	<i>≥</i> 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:

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• 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
- 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 item 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

67-64-1 acetone	200 ppm
123-86-4 n-Butyl acetate	5 ppm
1330-20-7 Xylene	130 ppm
100-41-4 ethylbenzene	33 ppm
868-77-9 2-Hydroxyethyl methacrylate	1.9 mg/m ³
108-65-6 2-Methoxy-1-methylethyl acetate	50 ppm
78-83-1 isobutanol	150 ppm
77-58-7 dibutyltin dilaurate	1.1 mg/m ²
556-67-2 octamethylcyclotetrasiloxane	30 ppm
540-97-6 Dodecamethylcyclohexasiloxane	150 mg/m
PAC-2:	
67-64-1 acetone	3200* ppm
123-86-4 n-Butyl acetate	200 ppm
1330-20-7 Xylene	920* ppm
100-41-4 ethylbenzene	1100* ppm
868-77-9 2-Hydroxyethyl methacrylate	21 mg/m³
108-65-6 2-Methoxy-1-methylethyl acetate	1,000 ppm

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	(Contd. of page 3
78-83-1 isobutanol	1,300 ppm
77-58-7 dibutyltin dilaurate	8 mg/m³
556-67-2 octamethylcyclotetrasiloxane	68 ppm
540-97-6 Dodecamethylcyclohexasiloxane	1,700 mg/m³
· PAC-3:	
67-64-1 acetone	5700* ppm
123-86-4 n-Butyl acetate	3000* ppm
1330-20-7 Xylene	2500* ppm
100-41-4 ethylbenzene	1800* ppm
868-77-9 2-Hydroxyethyl methacrylate	1,000 mg/m³
108-65-6 2-Methoxy-1-methylethyl acetate	5000* ppm
78-83-1 isobutanol	8000* ppm
77-58-7 dibutyltin dilaurate	48 mg/m³
556-67-2 octamethylcyclotetrasiloxane	130 ppm
540-97-6 Dodecamethylcyclohexasiloxane	9,900 mg/m³

7 Handling and storage

· Handling:

 Precautions 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.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

- · 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.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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 item 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.

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

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USA

Safety Data Sheet acc. to OSHA HCS



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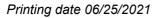
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(Contd. of pa REL Long-term value: 590 mg/m ² , 250 ppm BEI 123-86-4 n-Butyl acetate PEL Long-term value: 710 mg/m ² , 150 ppm Long-term value: 238 mg/m ² , 100 ppm Long-term value: 35 mg/m ² , 100 ppm Long-term value: 435 mg/m ² , 100 ppm REL Short-term value: 65 mg/m ² , 150 ppm Long-term value: 435 mg/m ² , 100 ppm REL Short-term value: 655 mg/m ² , 100 ppm REL Short-term value: 65 mg/m ² , 100 ppm BEI 100-41-4 ethylbenzene PEE Long-term value: 435 mg/m ² , 100 ppm REL Short-term value: 35 mg/m ² , 100 ppm REL Short-term value: 35 mg/m ² , 100 ppm REL Short-term value: 35 mg/m ² , 100 ppm REL Long-term value: 35 mg/m ² , 100 ppm REL Short-term value: 35 mg/m ² , 20 ppm BEI 107 gfg creatinine Medium: urine Time: end of shift Parameter. Acetone (nonspecific) 130-20-7 Xylene BEI 1.5 gfg creatinine Medium: urine Time: end of shift Parameter. Sum of mandelic acids 100-41-4 ethylbenzene BEI 0.7 gfg creatinine Medium: urine Time: end of shift Parameter. Sum of mandelic acids and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: urine Time: not critical Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - M	TLV Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI 123-86-4 n-Butyl acctate PPL Long-term value: 710 mg/m³, 150 ppm Long-term value: 950 mg/m³, 200 ppm 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 1330-20-7 Xylene E PEL Long-term value: 635 mg/m³, 100 ppm REL Short-term value: 655 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm PEL Long-term value: 651 mg/m³, 100 ppm REL Short-term value: 643 mg/m³, 100 ppm PEL Long-term value: 435 mg/m³, 100 ppm BEI Tom-term value: 545 mg/m³, 100 ppm PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 645 mg/m³, 100 ppm REL Short-term value: 635 mg/m³, 100 ppm Long-term value: 436 mg/m³, 100 ppm Tom-term value: 637 mg/m³, 20 ppm BEI Short-term value: 637 mg/m³, 20 ppm IngreeTients with biological limit values: 67-64-1 acetone BEI Short-term value: 637 mg/m³, 20 ppm IngreeTients with biological limit values: 67-64-1 acetone BEI Short-term value: 637 mg/m³, 20 ppm		
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Long-term value: 710 mg/m³, 150 ppm LV Short-term value: 712 mg/m³, 150 ppm Long-term value: 435 mg/m³, 150 ppm REL Cong-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 434 mg/m³, 100 ppm BEI 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm BEI Long-term value: 435 mg/m³, 100 ppm TV Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm TV Long-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 20 ppm BEI 100-41-4 ethylbenzene 100-41-4 ethylbenzene 111 112 Jong-term value: 435 mg/m³, 20 ppm BEI 113 Jong-term value: 57 mg/m³, 20 ppm BEI 113 Jong-term value: 57 mg/m³, 20 ppm BEI 113 Jong-term value: 67 mg/m³, 20 ppm BEI 115 Jong/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 133 Jong-TX Jene BEI 15 Jong/L Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 10 Jong creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sweethylippuric acids 100-41-4 ethylbenzene BEI 10 Jong creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sweethyl benzene (semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Parameter: Keep away from foodstuffs, beverages and feed. Immediately remove all solled and contaminated clothing. Wash hands before breaks and at the end of work.	Long-term value: 710 mg/m³, 150 ppm TLV Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 150 ppm REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 655 mg/m³, 150 ppm Long-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Short-term value: 551 mg/m³, 100 ppm REL Short-term value: 551 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end exhaled air Time: end orticcal Parameter: Ethyl benzene (semi-quantitative) - Medium: end exhaled air Time: end orticcal Parameter: Ethyl benzene (semi-quantitative) - Medium: end exhaled air Time: end orticcal Parameter: Ethyl benzene (semi-quantitative) - Medium: end exhaled air Time: end exhaled		
Long-term value: 238 mg/m³, 50 ppm 1330-20-7 Xylene PEL Long-term value: 435 mg/m³, 100 ppm EL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm BEI Short-term value: 435 mg/m³, 100 ppm BEI Bort-term value: 435 mg/m³, 100 ppm BEI Iong-term value: 435 mg/m³, 100 ppm EL Short-term value: 435 mg/m³, 100 ppm EL Long-term value: 435 mg/m³, 100 ppm EL Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm EL Short-term value: 545 mg/m³, 100 ppm RE Short-term value: 545 mg/m³, 100 ppm RE Short-term value: 545 mg/m³, 100 ppm RE Short-term value: 57 mg/m³, 20 ppm BEI So mg/L Hogdium: urine Time: end of shift Parameter: Acetone Nedium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene Nedium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical	Long-term value: 238 mg/m³, 50 ppm 1330-20-7 Xylene PEL Long-term value: 435 mg/m³, 100 ppm REL. Short-term value: 655 mg/m³, 150 ppm Long-term value: 651 mg/m³, 100 ppm BEI Short-term value: 651 mg/m³, 100 ppm BEI Short-term value: 435 mg/m³, 100 ppm BEI Double: 435 mg/m³, 100 ppm REL. Short-term value: 545 mg/m³, 100 ppm REL Short-term value: 547 mg/m³, 20 ppm BEI Stort-term value: 87 mg/m³, 20 ppm </td <td></td> <td>Long-term value: 710 mg/m³, 150 ppm</td>		Long-term value: 710 mg/m³, 150 ppm
PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV Short-term value: 435 mg/m³, 100 ppm BEI Iong-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 125 ppm Long-term value: 435 mg/m³, 120 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI Song/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI I Variable Additional information: Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) Additional information: The	PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm TLV Short-term value: 651 mg/m³, 100 ppm BEI Iong-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Long-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 87 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 87 mg/m³, 100 ppm Long-term value: 87 mg/m³, 100 ppm Long-term value: 87 mg/m³, 20 ppm Long-term value: 87 mg/m³, 20 ppm BEI So mg/L Medium: urine Time: end of shift Parameter: Acetone Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene Editter Editter BEI 0.7 g/g creatinine <td< td=""><td>TLV</td><td></td></td<>	TLV	
REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV Short-term value: 651 mg/m³, 100 ppm BEI 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm REL Ingredients with biological limit values: 67-64-1 acetone BEI 8EI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI BEI 15 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immed	REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV Short-term value: 434 mg/m³, 100 ppm BEI 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 100 ppm TLV Long-term value: 545 mg/m³, 100 ppm TLV Long-term value: 545 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 100 ppm TLV Long-term value: 545 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Sthyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective equipment: General protective equipment: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing.	1330	-20-7 Xylene
Long-term value: 435 mg/m³, 100 ppm ILV Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm ILOng-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) 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 solied and contaminated clothing. Wash hands before breaks and at the end of work.	Long-term value: 435 mg/m³, 100 ppm ILV Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm TLV Long-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective equipment: General protective equipment: Mean Magina Shifts, beverages and feed. Immediately remove all solied and contaminated clothing.	PEL	Long-term value: 435 mg/m³, 100 ppm
Long-term value: 434 mg/m³, 100 ppm BEI BEI 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 87 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) 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 solied and contaminated ofting.	Long-term value: 434 mg/m³, 100 ppm BEI 100-41-4 ethylbenzene PEL Long-term value: 545 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 545 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: end cfshift at end of workweek Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective end solied and contaminated clothing.	REL	
PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 100 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 130-20-7 Xylene BEI 15 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 07 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) 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	PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Somg/L Ingredients with biological limit values: 67-64-1 acetone BEI So mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI BEI 15 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: ond critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and	TLV	Long-term value: 434 mg/m³, 100 ppm
REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 130-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) 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.	REL Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective end bygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.	100-	41-4 ethylbenzene
Long-term value: 435 mg/m³, 100 ppm Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal 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.	Long-term value: 435 mg/m³, 100 ppm Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective end bylighic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.	PEL	Long-term value: 435 mg/m³, 100 ppm
BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) 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 solied and contaminated clothing. Wash hands before breaks and at the end of work.	BEI Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective end hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.	REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) 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.	67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) 1330-20-7 Xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective end hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing.	TLV	
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		Was	

- USA

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Reviewed on 11/28/2018

Trade name: Mipa 2K-Klarlack C 210 LV Low VOC

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USA

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.

• Protection of hands:

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



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

Information on basic physical and General Information	l 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:	56 °C (132.8 °F)	
Flash point:	13 °C (55.4 °F) (DIN 53213)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	370 °C (698 °F) (DIN 51794)	
Decomposition temperature:	Not determined.	

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Trade name: Mipa 2K-Klarlack C 210 LV Low VOC

	(Contd. of page 6
· 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:	1.2 Vol %
Upper:	13 Vol %
· Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
· Density at 20 °C (68 °F):	0.96 g/cm³ (8.011 lbs/gal) (DIN 53217)
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/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	26 s (DIN 53211/4)
· Solvent content:	
VOC content:	32.23 %
	416 g/l / 3.5 lb/gal
Solids content (weight-%):	46.6 %
· 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:

· LD/LC50 values that are relevant for classification:

64742-95-6 Hydrocarbons, C9, aromatics

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: Irritating effect.

· Sensitization: Sensitization possible through skin contact.

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Trade name: Mipa 2K-Klarlack C 210 LV Low VOC

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3 2B

USA

· 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

100-41-4 ethylbenzene

· 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 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: 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 · IMDG, IATA PAINT (Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Mipa 2K-Klarlack C 210 LV Low VOC

	(Contd. of page
[.] Transport hazard class(es)	
·DOT	
PLAMMAREE LICUID	
3	
· Class	3 Flammable liquids
· Label	3
· ADR	
· Class · Label	3 (F1) Flammable liquids 3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
DOT, ADR, IMDG, IATA	11
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
· EMS Number:	F-E, <u>S-E</u> B
Stowage Category	D
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Natapplicable
	Not applicable.
· Transport/Additional information:	
· ADR	F 1
· Limited quantities (LQ)	5L
	F 1
· Limited quantities (LQ)	5L
· UN "Model Regulation":	UN 1263 PAINT, 3, II

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.

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• 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

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 (Envi	ronmental Protection Agency)		
67-64-1	acetone		1
1330-20-7	Xylene		1
100-41-4	ethylbenzene		D
· TLV (Threa	shold Limit Value established by ACGIH)		
67-64-1	acetone	A4	10-25%
1330-20-7	Xylene	A4	2.5-<5%
100-41-4	ethylbenzene	A3	<2.5%
77-58-7	dibutyltin dilaurate	A4	<0.1%
· 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



· Signal word Danger

Hazard-determining components of labeling: acetone Xylene n-Butyl acetate ethylbenzene
Hazard statements H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure.

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Safety Data Sheet acc. to OSHA HCS



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Trade name: Mipa 2K-Klarlack C 210 LV Low VOC

Precautionary	
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+P3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse s
	with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	38 If in eyes: Rinse cautiously with water for several minutes. Remove cont
	lenses, if present and easy to do. Continue rinsing.
N - (1 1	
National regula	
	sification according to Decree on Hazardous Materials:
Class Share	in %
NK 50-1	100
	we assessment: A Chemical Sofety Assessment has not been corried out
Chemical safet	ty assessment: A Chemical Safety Assessment has not been carried out.
Other inform	nation
	n is based on our present knowledge. However, this shall not constitute a guaran
for any specific	product features and shall not establish a legally valid contractual relationship.
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