




1 Identification

- **Product identifier**
- **Trade name:** *Mipa 2K-Express-Klarlack CX1*
- **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 | |
| | <i>Flammable Liquids 2</i> | <i>H225 Highly flammable liquid and vapor.</i> |
- | | | |
|---|--------------------------------|--|
|  | GHS08 Health hazard | |
| | <i>Toxic to Reproduction 2</i> | <i>H361 Suspected of damaging fertility or the unborn child.</i> |
- | | | |
|---|---|--|
|  | GHS07 | |
| | <i>Sensitization - Skin 1</i> | <i>H317 May cause an allergic skin reaction.</i> |
| | <i>Specific Target Organ Toxicity - Single Exposure 3</i> | <i>H336 May cause drowsiness or dizziness.</i> |

- **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** *Danger*
- **Hazard-determining components of labeling:**
5-methylhexan-2-one
n-Butyl acetate
acetone
2-Methoxy-1-methylethyl acetate

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 1)

· **Hazard statements**

- H225 Highly flammable liquid and vapor.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- H336 May cause drowsiness or dizziness.

· **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH 0 Health = 0
FIRE 3 Fire = 3
REACTIVITY 0 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%
616-38-6	dimethyl carbonate	10-25%
67-64-1	acetone	5-<10%
110-12-3	5-methylhexan-2-one	2.5-<10%
763-69-9	Ethyl 3-ethoxypropionate	2.5-<10%
108-65-6	2-Methoxy-1-methylethyl acetate	<2.5%
	Reaction mass of pentamethyl-piperidyl sebacate	≥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.

(Contd. on page 3)

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 2)

- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to 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**

· PAC-1:

123-86-4	n-Butyl acetate	5 ppm
616-38-6	dimethyl carbonate	11 ppm
67-64-1	acetone	200 ppm
110-12-3	5-methylhexan-2-one	50 ppm
763-69-9	Ethyl 3-ethoxypropionate	1.6 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm
104-76-7	2-Ethyl-1-hexanol	0.1 ppm
868-77-9	2-Hydroxyethyl methacrylate	1.9 mg/m ³
77-58-7	dibutyltin dilaurate	1.1 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	30 ppm

· PAC-2:

123-86-4	n-Butyl acetate	200 ppm
616-38-6	dimethyl carbonate	120 ppm
67-64-1	acetone	3200* ppm
110-12-3	5-methylhexan-2-one	69 ppm
763-69-9	Ethyl 3-ethoxypropionate	18 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	1,000 ppm
104-76-7	2-Ethyl-1-hexanol	100 ppm

(Contd. on page 4)

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 3)

868-77-9	2-Hydroxyethyl methacrylate	21 mg/m ³
77-58-7	dibutyltin dilaurate	8 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	68 ppm
· PAC-3:		
123-86-4	n-Butyl acetate	3000* ppm
616-38-6	dimethyl carbonate	700 ppm
67-64-1	acetone	5700* ppm
110-12-3	5-methylhexan-2-one	190 ppm
763-69-9	Ethyl 3-ethoxypropionate	110 ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
104-76-7	2-Ethyl-1-hexanol	200 ppm
868-77-9	2-Hydroxyethyl methacrylate	1,000 mg/m ³
77-58-7	dibutyltin dilaurate	48 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	130 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Keep away from heat and direct sunlight.
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:** 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.

123-86-4 n-Butyl acetate

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

(Contd. on page 5)

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 4)

REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm
67-64-1 acetone	
PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI
110-12-3 5-methylhexan-2-one	
PEL	Long-term value: 475 mg/m ³ , 100 ppm
REL	Long-term value: 240 mg/m ³ , 50 ppm
TLV	Short-term value: 50 ppm Long-term value: 20 ppm
108-65-6 2-Methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
Ingredients with biological limit values:	
67-64-1 acetone	
BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (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.

· **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.

(Contd. on page 6)

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 5)

- **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

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:

56 °C (132.8 °F)

· Flash point:

<0 °C (<32 °F) (DIN 53213)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

455 °C (851 °F) (DIN 51794)

· Decomposition temperature:

Not determined.

· 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:

7.5 Vol %

· Vapor pressure at 20 °C (68 °F):

233 hPa (174.8 mm Hg)

· Density at 20 °C (68 °F):

0.989 g/cm³ (8.253 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/water):

Not determined.

· Viscosity:

Dynamic:

Not determined.

Kinematic at 20 °C (68 °F):

10-15 s (DIN 53211/4)

· Solvent content:

VOC content:

31.54 %

407 g/l / 3.4 lb/gal

(Contd. on page 7)

USA

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 6)

Solids content (weight-%): 46.4 %

Other information No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 8)

Trade name: Mipa 2K-Express-Klarlack CX1




(Contd. of page 7)

· **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 · ADR · IMDG, IATA	Paint UN1263 PAINT PAINT
· Transport hazard class(es) · DOT	
	
· Class · Label	3 Flammable liquids 3
· ADR	
	
· Class · Label	3 (F1) Flammable liquids 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Flammable liquids 33 F-E, <u>S</u> -E

(Contd. on page 9)

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 9)

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

5-methylhexan-2-one

n-Butyl acetate

acetone

2-Methoxy-1-methylethyl acetate

· Hazard statements

H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

· Precautionary statements

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

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

· National regulations:

· Additional classification according to Decree on Hazardous Materials:

Class	Share in %
NK	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 05/20/2022 / 50

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS



Printing date 05/20/2022

Reviewed on 05/20/2022

Trade name: Mipa 2K-Express-Klarlack CX1

(Contd. of page 10)

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

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

*** Data compared to the previous version altered.**

USA