

# **1** Identification

- · Product identifier
- · Trade name: Mipa 2K-Löser
- · Application of the substance / the mixture Thinner, Diluent
- · 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: International: 011 49(0)700 24112112 (MIP)

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

Reviewed on 06/16/2023

US: +1 872 5888271 (MIP) US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

Safety Data Sheet

acc. to OSHA HCS

# 2 Hazard(s) identification

H225	Highly flammable liquid and vapor.
H318	Causes serious eye damage.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.
3 H335-H330	6 May cause respiratory irritation. May cause drowsiness or dizziness.
	H318 H312 H332 H315

- · 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: Cyclohexanone
 2-Butoxyethyl acetate

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2-Methoxy-1-methylethyl acetate
acetone
· Hazard statements
H225 Highly flammable liquid and vapor.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 3
Fire = 3
3 $0$ Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH *3 Health = *3
FIRE 3 Fire = 3
REACTIVITY 0 Reactivity = 0
Other hazards
Results of PBT and vPvB assessment
· <b>PBT:</b> Not applicable.
· <b>vPvB:</b> Not applicable.

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# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
108-94-1	Cyclohexanone	25-50%
108-65-6	2-Methoxy-1-methylethyl acetate	25-50%
112-07-2	2-Butoxyethyl acetate	<15%
67-64-1	acetone	5-<10%

# 4 First-aid measures

### · Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

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

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· After inhalation:

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

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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. Then 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:

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: Mouth respiratory protective device.

### 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). Use neutralizing agent.

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

108-94-1 Cyclohexanone	60 ppm
108-65-6 2-Methoxy-1-methylethyl acetate	50 ppm
112-07-2 2-Butoxyethyl acetate	15 ppm
67-64-1 acetone	200 ppm
75-65-0 2-methylpropan-2-ol	150 ppm
1330-20-7 Xylene	130 ppm
646-06-0 1,3-dioxolane	60 ppm
100-41-4 Ethylbenzene	33 ppm
78-83-1 Isobutanol	150 ppm
540-97-6 Dodecamethylcyclohexasiloxane	150 mg/m



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556-67-2	octamethylcyclotetrasiloxane	(Contd. of page 30 ppm
		30 pp///
PAC-2:		
	Cyclohexanone	830 ppm
	2-Methoxy-1-methylethyl acetate	1,000 ppm
	2-Butoxyethyl acetate	35 ppm
67-64-1		3200* ppm
	2-methylpropan-2-ol	1,300 ppm
1330-20-7	Xylene	920* ppm
646-06-0	1,3-dioxolane	190 ppm
100-41-4	Ethylbenzene	1100* ppm
78-83-1	Isobutanol	1,300 ppm
540-97-6	Dodecamethylcyclohexasiloxane	1,700 mg/m
556-67-2	octamethylcyclotetrasiloxane	68 ppm
PAC-3:		
108-94-1	Cyclohexanone	5000* ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
112-07-2	2-Butoxyethyl acetate	210 ppm
67-64-1	acetone	5700* ppm
75-65-0	2-methylpropan-2-ol	8000* ppm
1330-20-7	Xylene	2500* ppm
646-06-0	1,3-dioxolane	1,000 ppm
100-41-4	Ethylbenzene	1800* ppm
78-83-1	Isobutanol	8000* ppm
540-97-6	Dodecamethylcyclohexasiloxane	9,900 mg/m
	octamethylcyclotetrasiloxane	130 ppm

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# 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.
- · 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.

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	tional information about design of technical systems: No further data; see section 7.
	rol parameters
	ponents with limit values that require monitoring at the workplace:
	04-1 Cyclohexanone
PEL	Long-term value: 200 mg/m³, 50 ppm
REL	Long-term value: 100 mg/m³, 25 ppm Skin
TLV	Short-term value: 50 ppm Long-term value: 20 ppm Skin, BEI, A3
108-	65-6 2-Methoxy-1-methylethyl acetate
WEE	L Long-term value: 50 ppm
112-	07-2 2-Butoxyethyl acetate
REL	Long-term value: 33 mg/m³, 5 ppm
TLV	Long-term value: 20 ppm A3
67-6	I-1 acetone
PEL	Long-term value: 2400 mg/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI
-	dients with biological limit values:
	04-1 Cyclohexanone
	80 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative)
	8 mg/L Medium: urine
	Time: end of shift
	Time: end of shift Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)
<b>67-6</b> BEI	Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)
67-6 BEI Addi Expo Pers Gen Keep Imme Was Avoid	Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative) <b>I-1 acetone</b> 25 mg/L Medium: urine Time: end of shift

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· Breathing equipment:

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USA

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:

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

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Material of gloves
- Butyl rubber, BR

Recommended thickness of the material:  $\geq$  0.7 mm

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 Value for the permeation: Level  $\leq 6$
- Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

· General Information	•	
A		

<ul> <li>Appearance:</li> <li>Form:</li> <li>Color:</li> <li>Odor:</li> <li>Odor threshold:</li> </ul>	Fluid According to product specification Characteristic Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 56 °C (132.8 °F)
· Flash point:	9 °C (48.2 °F) (DIN 53213)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	280 °C (536 °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.
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Explosion limits:		
Lower:	1.3 Vol %	
Upper:	10.8 Vol %	
Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)	
Density at 20 °C (68 °F):	0.936 g/cm³ (7.811 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	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C (68 °F):	15 s (DIN 53211/4)	
Solvent content:		
VOC content:	90.04 %	
	954 g/l / 8.0 lb/gal	
Solids content (weight-%):	0.2 %	
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:

### 108-94-1 Cyclohexanone

Oral LD50 1,620 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

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#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-94-1 Cyclohexanone

### • 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.

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Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · 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.

UN-Number	
DOT, ADR, IMDG, IATA	UN1263
UN proper shipping name	
DOT	Paint related material
ADR	UN1263 PAINT RELATED MATERIAL
IMDG, IATA	PAINT RELATED MATERIAL



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Transport hazard class(es)	
DOT	
PLANINGE LOUD	
Class	3 Flammable liquids
Label	3
ADR	
Class	3 (F1) Flammable liquids
Label	3
IMDG, IATA	
Class Label	3 Flammable liquids 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:	33 F-E,S-E
Stowage Category	B
<i>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ)	5L
IMDG Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 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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#### Trade name: Mipa 2K-Löser

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Section 31	3 (Specific toxic chemical listings):	(Conto	i. or page
	2-Butoxyethyl acetate		
	2-methylpropan-2-ol		
1330-20-7			
100-41-4	Ethylbenzene		
Hazardous	s Air Pollutants		
1330-20-7	Xylene		
100-41-4	Ethylbenzene		
Propositio	n 65		
Chemicals	s known to cause cancer:		
100-41-4	Ethylbenzene		
Chemicals	known to cause reproductive toxicity for females:		
None of the	e ingredients is listed.		
Chemicals	known to cause reproductive toxicity for males:		
None of the	e ingredients is listed.		
Chemicals	known to cause developmental toxicity:		
None of the	e ingredients is listed.		
Cancerog	enity categories		
-	ronmental Protection Agency)		
•	4-1 acetone		
1330-20-7	Xylene		
100-41-4	Ethylbenzene		
TLV (Thre	shold Limit Value)		
•	Cyclohexanone	A3	25-50
112-07-2	2-Butoxyethyl acetate	A3	<15%
67-64-1	acetone	A4	5-<10
75-65-0	2-methylpropan-2-ol	A4	<1%
	Xylene		<0.1%

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• NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

GHS label elements

100-41-4 Ethylbenzene

The product is classified and labeled according to the Globally Harmonized System (GHS). **Hazard pictograms** 



· Signal word Danger

· Hazard-determining components of labeling:

Cyclohexanone 2-Butoxyethyl acetate 2-Methoxy-1-methylethyl acetate acetone

Hazard statements H225 Highly flammable liquid and vapor. A3

<0.1%

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(Contd. of page 10) H312+H332 Harmful in contact with skin or if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P362+P364 Take off contaminated clothing and wash it before reuse. National regulations:

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· 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 06/16/2023 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 2: Flammable liquids - Category 2 Acute Toxicity - Dermal 4: Acute toxicity – Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 \* \* Data compared to the previous version altered.



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USA