

Safety data sheet

according to UK REACH Version number 75 (replaces version 74)

Revision: 28.10.2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

- · Trade name: Mipa Verdünnung UN 21
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Thinner, Diluent
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: MIPA SE
 Am Oberen Moos 1
 D-84051 Essenbach
 Tel.: +49 8703 92 20
 Fax.: +49 8703 92 21 00
 e-mail: sdb-registratur@mipa-paints.com
 www.mipa-paints.com
- •1.4 Emergency telephone number: International emergency number: +49(0)700 24112112 (MIP)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

health hazard

STOT RE 2 H373	May cause damage to the hearing organs through prolonged or repeated exposure.
Asp. Tox. 1 H304	May be fatal if swallowed and enters airways.



• • • • • • • • • • • • • • • • • • •		
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



· Signal word Danger

• **Hazard-determining components of labelling:** *Xylene Ethylbenzene*

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n-Butyl acetate			
Cyclohexanone			
Hazard statements			
H226 Flammable liquid and vapour.			
H315 Causes skin irritation.			
H319 Causes serious eye irritation.			
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.			
H373 May cause damage to the hearing organs through prolonged or repeated exposure.			
H304 May be fatal if swallowed and enters airways.			
Precautionary statements			
P101 If medical advice is needed, have product container or label at hand.			
P102 Keep out of reach of children.			
P103 Read carefully and follow all instructions.			
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.			
P321 Specific treatment (see on this label).			
P331 Do NOT induce vomiting.			
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.			
P362+P364 Take off contaminated clothing and wash it before reuse.			
P501 Dispose of contents/container in accordance with local/regional/national/			
international regulations.			
2.3 Other hazards			
Results of PBT and vPvB assessment			
PBT: Not applicable.			

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:

EINECS: 215-535-7 Image: Flam. Liq. 3, H226; Image: Stot RE 2, H373; Asp. Tox. 1, H304; Image: Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 CAS: 123-86-4 n-Butyl acetate EINECS: 204-658-1 Flam. Liq. 3, H226; Image: Stot SE 3, H336, EUH066 Reg.nr.: 01-2119485493-29 Flam. Liq. 3, H226; Image: Stot SE 3, H336, EUH066	50-100%
EINECS: 204-658-1 Flam. Liq. 3, H226; STOT SE 3, H336, EUH066 Reg.nr.: 01-2119485493-29 Ethylbenzene CAS: 100-41-4 Ethylbenzene EINECS: 202-849-4 Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit.	
EINECS: 202-849-4 Reg.nr.: 01-2119489370-35 H304; () Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit.	10-25%
	<i>≥</i> 10-<25%
CAS: 108-94-1 Cyclohexanone EINECS: 203-631-1 Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H226; Image: Flam. 1, H318; Image: Flam. Liq. 3, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	<u>≥</u> 2.5-<3%

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Seek immediate medical advice.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- . 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.

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· Further information about storage conditions: Keep container tightly sealed.

· Storage class: 3

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 C	ontrol parameters		
· Ingre	· Ingredients with limit values that require monitoring at the workplace:		
1330	-20-7 Xylene		
WEL	Short-term value: 441 mg/m³, 100 ppm		
	Long-term value: 220 mg/m³, 50 ppm		
	Sk; BMGV		
123-8	36-4 n-Butyl acetate		
WEL			
	Long-term value: 724 mg/m³, 150 ppm		
100-4	11-4 Ethylbenzene		
WEL	Short-term value: 552 mg/m³, 125 ppm		
l	Long-term value: 441 mg/m³, 100 ppm		
	Sk		
108-9	04-1 Cyclohexanone		
WEL	Short-term value: 82 mg/m³, 20 ppm		
	Long-term value: 41 mg/m³, 10 ppm		
	Sk, BMGV		
	dients with biological limit values:		
	-20-7 Xylene		
BMG	V 650 mmol/mol creatinine		
	Medium: urine		
	Sampling time: post shift		
	Parameter: methyl hippuric acid		
	04-1 Cyclohexanone		
BMG	V 2 mmol/mol creatinine		
	Medium: urine		
	Sampling time: post shift		
	Parameter: cyclohexanol		
·Addi	tional information: The lists valid during the making were used as basis.		
· 8.2 E	xposure controls		
	opriate engineering controls No further data; see section 7.		
	idual protection measures, such as personal protective equipment		
	eral protective and hygienic measures:		
Keep away from foodstuffs, beverages and feed.			
	Immediately remove all soiled and contaminated clothing		
Wash hands before breaks and at the end of work.			
Store protective clothing separately.			
	Avoid contact with the eyes.		
	l contact with the eyes and skin. iratory protection:		
Filter	7 1		
	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.		
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· Hand protection

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



Protective gloves (EN 374)

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

Material of gloves

Fluorocarbon rubber (Viton)

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** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Value for the permeation: Level ≤ 6

Eye/face protection



Tightly sealed goggles

9.1 Information on basic physical and cher	nical properties
· General Information	incal properties
· Physical state	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and	
boiling range	124-128 °C (123-86-4 n-Butyl acetate)
Flammability	Flammable.
Lower and upper explosion limit	
· Lower:	1 Vol % (100-41-4 Ethylbenzene)
Upper:	7.8 Vol 论 (100-41-4 Ethylbenzene)
Flash point:	24 °C (DIN 53213)
Auto-ignition temperature:	370 °C (DIN 51794, 123-86-4 n-Butyl acetate)
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 20 °C	10-15 s (DIN 53211/4)
· Dynamic:	Not determined.
· Solubility	
water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log	
value)	Not determined.
· Vapour pressure at 20 °C:	10.7 hPa (123-86-4 n-Butyl acetate)
Vapour pressure at 50 °C:	55 hPa
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Density and/or relative density	
Density at 20 °C:	0.874 g/cm³ (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of hea	alth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
Solvent content:	
VOC (EC)	100.00 %
Solids content (weight-%):	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haz classes	ard
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
	Void
Corrosive to metals Desensitised explosives	Void

SECTION 10: Stability and reactivity

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

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SECTION 11: Toxicological information

• **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
1330-20-7 Xylene		
Oral	LD50	5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (rat)
Primary irritant effect:		
Skin corrosion/irritation Causes skin irritation.		
· Serious eye damage/irritation Causes serious eye irritation.		
 STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness. 		

STOT-repeated exposure

May cause damage to the hearing organs through prolonged or repeated exposure.

- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) : 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.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information	
14.1 UN number or ID number ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR	UN1993 FLAMMABLE LIQUID, N.O.S. (BUTY ACETATES, XYLENES)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTY ACETATES, XYLENES)
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number: Stowage Category	<i>F-E,<u>S-E</u> A</i>
14.7 Maritime transport in bulk according to	
IMO instruments	Not applicable.
Transport/Additional information:	
ADR	_
Limited quantities (LQ)	5L 3
Transport category Tunnel restriction code	3 D/E
IMDG Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTY ACETATES, XYLENES), 3, III

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SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

[.] Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

National regulations:

• Additional classification according to Decree on Hazardous Materials, Annex II:

Class	Share in %
NK	50-100

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

Relevant phrases

H225 Highly flammable liquid and vapour.

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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



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IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
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)	
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	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
* Data compared to the previous version altered.	