

Safety data sheet

according to 1907/2006/EC, Article 31 Version number 73 (replaces version 72)

Revision: 25.01.2023

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(0)8703-922-0 Fax.: +49(0)8703-922-100 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 H373May cause damage to organs through prolonged or repeated exposure.Asp. Tox. 1 H304May be fatal if swallowed and enters airways.



Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2H319Causes serious eye irritation.STOT SE 3H335-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 n-Butyl acetate

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Hazard statements					
H226 Flam	mable liquid and vapour.				
H315 Caus	es skin irritation.				
H319 Caus	es serious eye irritation.				
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.					
H373 May cause damage to organs through prolonged or repeated exposure.					
H304 May I					
 Precautionary st 	tatements				
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 con 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/				
F 50 T	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:				
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-100%		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate أن Flam. Liq. 3, H226; (1) STOT SE 3, H336, EUH066	10-25%		
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	≥10-<25%		
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35	Cyclohexanone ♦ Flam. Liq. 3, H226; <> Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	<i>≥</i> 2.5-<3%		
• Additional information: For the wording of the listed hazard phrases refer to section 16.				

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.

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· After skin contact: Immediately rinse with water.

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· After eve 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 item 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.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

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	dients 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	6-4 n-Butyl acetate
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
100-4	1-4 Ethylbenzene
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
	4-1 Cyclohexanone
WEL	Short-term value: 82 mg/m³, 20 ppm Long-term value: 41 mg/m³, 10 ppm Sk, BMGV
Ingre	dients with biological limit values:
1330-	20-7 Xylene
Billo	V 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
108-9	94-1 Cyclohexanone
BMG`	V 2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol
Addit	tional information: The lists valid during the making were used as basis.
Appro Indivi Gene Keep Imme Wash Store Avoid Avoid	xposure controls opriate engineering controls No further data; see item 7. idual protection measures, such as personal protective equipment ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing hands before breaks and at the end of work. protective clothing separately. contact with the eyes. contact with the eyes and skin.
	In case of brief exposure or low pollution use respiratory filter device. In case of inter



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· Hand protection

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: ≥ 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 ch	nemical properties
General Information	
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 % (100-41-4 Ethylbenzene)
Flash point:	24 °C (DIN 53213)
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)



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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.	
Auto-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 haza classes	
Explosives	Void Void
Flammable gases	
Aerosols	Void Void
Oxidising gases	Void Void
Gases under pressure Flammable liquids	Void Flammable liquid and vapour.
Elammahla solida	
Flammable solids	Void
Self-reactive substances and mixtures	Void Void
Self-reactive substances and mixtures Pyrophoric liquids	Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Void Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Void 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/-	h 29 mg/l (rat)				
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 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. (BUTYL ACETATES, XYLENES)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTYL 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	III
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code): · EMS Number:	30 F-E,S-E
Stowage Category	A
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Transport category Tunnel restriction code	5L 3 D/E
· IMDG · Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL 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
- · 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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
- EINECS: European Inventory of Existing Commercial Che 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



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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.