Revision: 08.08.2024



# Safety data sheet

according to UK REACH

Printing date 08.08.2024

Version number 19 (replaces version 18)

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

- · 1.1 Product identifier
- · Trade name: Mipa Waschverdünnung 142
- · 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. 2 H225 Highly 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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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







GHS02 GHS07

7 GHS08

· Signal word Danger



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#### · Hazard-determining components of labelling:

Xvlene

Hydrocarbons, C9, aromatics

n-Butyl acetate Ethylbenzene

#### · Hazard statements

H225 Highly 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. H412 Harmful to aquatic life with long lasting effects.

#### 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:		
	n-Butyl acetate  This is a second of the sec	25-50%
EINECS: 215-535-7	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	10-25%
	Hydrocarbons, C9, aromatics  ♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H335-H336, EUH066	≥2.5-<15%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate  Flam. Liq. 3, H226;  STOT SE 3, H336	2.5-<10%
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	2.5-<10%

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CAC: 107.00.0		ontd. of page
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol ❖ Flam. Liq. 3, H226; ❖ STOT SE 3, H336	2.5-<109
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone      Flam. Liq. 2, H225;    Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<5%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	Ethyl acetate <b>♦</b> Flam. Liq. 2, H225; <b>♦</b> Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Methyl ethyl ketone ♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-<10%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51	Toluene ♦ Flam. Liq. 2, H225; ♦ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-<3%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	Isobutanol <b>♦</b> Flam. Liq. 3, H226; <b>♦</b> Eye Dam. 1, H318; <b>♦</b> Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥1-<2.5%
CAS: 110-12-3 EINECS: 203-737-8 Reg.nr.: 01-2119472300-51	5-Methylhexan-2-one ♦ Flam. Liq. 3, H226; ♦ Repr. 2, H361; ♦ Acute Tox. 4, H332	<1%
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	Styrene  ♠ Flam. Liq. 3, H226; ♦ Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; ♠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	<1%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one	<1%

## 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.

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· 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 product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

Keep away from heat and direct sunlight.

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: Store in a cool location.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

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1330-20-7 Xylene   WEL   Short-term value: 421 mg/m³, 50 ppm   Long-term value: 220 mg/m³, 50 ppm   Long-term value: 220 mg/m³, 50 ppm   Long-term value: 248 mg/m³, 100 ppm   Long-term value: 548 mg/m³, 100 ppm   Long-term value: 274 mg/m³, 50 ppm   Sk   Short-term value: 552 mg/m³, 125 ppm   Long-term value: 552 mg/m³, 100 ppm   Long-term value: 441 mg/m³, 100 ppm   Sk   Short-term value: 680 mg/m³, 150 ppm   Long-term value: 375 mg/m³, 150 ppm   Long-term value: 375 mg/m³, 150 ppm   Long-term value: 3620 mg/m³, 1500 ppm   Long-term value: 3620 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 385 mg/m³, 300 ppm   Long-term value: 734 mg/m³, 200 ppm   Long-term value: 680 mg/m³, 300 ppm   Long-term value: 680 mg/m³, 200 ppm   Sk, BMGV   Short-term value: 680 mg/m³, 200 ppm   Sk, BMGV   Sk, BMGV   Sk, BMGV   Sk, BMGV   Sk, BMGV   Short-term value: 319 mg/m³, 50 ppm   Long-term value: 191 mg/m³, 50 ppm   Long-term value: 194 mg/m³, 50 ppm   Long-term value: 231 mg/m³, 50 ppm   Long-term value: 347 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 300 ppm   Long-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Sk   Short-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Sk   Short-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Sk   Short-term value: 348 mg/m³, 50 ppm   Sk   Short-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Sk   Short-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Long-term value: 348 mg/m³, 50 ppm   Sk   Short-term value: 348	1220	20.7 Vidono	(Contd. of p
Long-term value: 220 mg/m², 50 ppm   Sk; BMGV		-	
Sk: BMGV     Short-term value: 548 mg/m³, 100 ppm	VVEL		
### 108-65-6 2-Methoxy-1-methylethyl acetate  ### WEL   Short-term value: 548 mg/m³, 100 ppm   Long-term value: 552 mg/m³, 125 ppm   Long-term value: 552 mg/m³, 125 ppm   Long-term value: 552 mg/m³, 125 ppm   Long-term value: 560 mg/m³, 150 ppm   Long-term value: 560 mg/m³, 150 ppm   Long-term value: 375 mg/m³, 100 ppm   Short-term value: 3620 mg/m³, 1500 ppm   Long-term value: 3620 mg/m³, 1500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1468 mg/m³, 200 ppm   Long-term value: 134 mg/m³, 200 ppm   Long-term value: 399 mg/m³, 300 ppm   Long-term value: 600 mg/m³, 200 ppm   Short-term value: 384 mg/m³, 200 ppm   Long-term value: 191 mg/m³, 50 ppm   Long-term value: 394 mg/m³, 100 ppm   Long-term value: 191 mg/m³, 50 ppm   Short-term value: 191 mg/m³, 50 ppm   Long-term value: 191 mg/m³, 50 ppm   Long-term value: 194 mg/m³, 100 ppm   Long-term value: 195 mg/m³, 20 ppm   Sk   Short-term value: 195 mg/m³, 20 ppm   Sk   Short-term value: 196 mg/m³, 100 ppm   Long-term value: 198 mg/m³, 20 ppm   Sk   Short-term value: 208 mg/m³, 200 ppm   Sk   Short-term value: 210 mg/m³, 200 ppm   Long-term value: 416 mg/m³, 100 ppm   Long-term value: 416 mg/m³, 100 ppm   Long-term value: 416 mg/m³, 100 ppm   Long-term value: 210 mg/m³, 50 ppm   Long-term value: 210 mg/m³, 50 ppm   Sk   Short-term value: 210 mg/m³, 50 ppm   Long-term value: 210 mg/m³, 50 ppm   L			
Short-term value: 548 mg/m³, 100 ppm   Long-term value: 274 mg/m³, 50 ppm   Short-term value: 552 mg/m³, 125 ppm   Long-term value: 441 mg/m³, 100 ppm   Long-term value: 441 mg/m³, 100 ppm   Short-term value: 680 mg/m³, 150 ppm   Long-term value: 375 mg/m³, 150 ppm   Long-term value: 3620 mg/m³, 150 ppm   Long-term value: 3620 mg/m³, 1500 ppm   Long-term value: 3620 mg/m³, 1500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 13468 mg/m³, 400 ppm   Long-term value: 734 mg/m³, 200 ppm   Resident value: 800 mg/m³, 50 ppm   Resident value: 800 mg/m³, 50 ppm   Resident value: 800 mg/m³, 50 ppm   Resident value: 191 mg/m³, 50 ppm   Resident value: 154 mg/m³, 50 ppm   Resident value: 154 mg/m³, 50 ppm   Resident value: 475 mg/m³, 50 ppm   Resident value: 470	108-6	,	
Long-term value: 274 mg/m³, 50 ppm   Sk			
Sk  100-41-4 Ethylbenzene  WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk  107-98-2 1-methoxy-2-propanol  WEL Short-term value: 550 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk  67-64-1 Acetone  WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm Long-term value: 1210 mg/m³, 500 ppm Long-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm 78-93-3 Methyl ethyl ketone  WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV  108-88-3 Toluene  WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk  78-83-1 Isobutanol  WEL Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 ppm 110-12-3 5-Methylhexan-2-one  WEL Short-term value: 475 mg/m³, 100 ppm Long-term value: 475 mg/m³, 20 ppm Sk  Sk  100-42-5 Styrene  WEL Short-term value: 1080 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 416 mg/m³, 100 ppm Long-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sk, BMGV  Ingredients with biological limit values:  1330-20-7 Xylene  BMGV   650 mmol/mol creatinine Medium: urine Sampling time: post shift	VVLL		
### 100-41-4 Ethylbenzene ### WEL Short-term value: 552 mg/m², 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk ### 107-98-2 1-methoxy-2-propanol #### 150 ppm Long-term value: 550 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk ### 150 ppm Long-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm 141-78-6 Ethyl acetate #### WEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm #### 150 ppm Long-term value: 899 mg/m³, 300 ppm Long-term value: 899 mg/m³, 200 ppm  #### 150 ppm Ung-term value: 899 mg/m³, 300 ppm Long-term value: 890 mg/m³, 50 ppm #### 150 ppm Ung-term value: 384 mg/m², 100 ppm Long-term value: 191 mg/m³, 50 ppm #### 150 ppm Ung-term value: 231 mg/m³, 75 ppm Long-term value: 254 mg/m³, 50 ppm #### 110-12-3 5-Methylhexan-2-one #### 150 ppm #### 150 ppm #### 150 ppm Ung-term value: 475 mg/m³, 100 ppm Long-term value: 95 mg/m³, 20 ppm Sk #### 150 ppm Ung-term value: 430 mg/m³, 250 ppm Long-term value: 430 mg/m³, 250 ppm Long-term value: 446 mg/m³, 100 ppm Long-term value: 460 mg/m³, 50 ppm ###################################		• • • • • • • • • • • • • • • • • • • •	
WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm S Sk    107-98-2 1-methoxy-2-propanol   WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 150 ppm Long-term value: 3620 mg/m³, 1500 ppm S Sk    67-64-1 Acetone   WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm   141-78-6 Ethyl acetate   WEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm   149-33-3 Methyl ethyl ketone   WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm S Sk BMGV    108-88-3 Toluene   WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm S Sk Sh	100-4		
Long-term value: 441 mg/m³, 100 ppm Sk  107-98-2 1-methoxy-2-propanol  WEL   Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 1500 ppm Sk  67-64-1 Acetone  WEL   Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm Long-term value: 1210 mg/m³, 200 ppm Long-term value: 734 mg/m³, 200 ppm Long-term value: 734 mg/m³, 200 ppm T8-93-3 Methyl ethyl ketone  WEL   Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV  108-88-3 Toluene  WEL   Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk  78-83-1 Isobutanol  WEL   Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 ppm Sk  100-42-5 Styrene  WEL   Short-term value: 475 mg/m³, 100 ppm Long-term value: 430 mg/m³, 20 ppm Sk  100-42-5 Styrene  WEL   Short-term value: 430 mg/m³, 100 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 430 mg/m³, 50 ppm Sk  WEL   Short-term value: 416 mg/m³, 100 ppm Long-term value: 430 mg/m³, 50 ppm Long-term value: 208 mg/m³, 50 ppm Sk   Short-term value: 416 mg/m³, 50 ppm Long-term value: 208 mg/m³, 50 ppm Sk   Short-term value: 208 mg/m³, 50 ppm			
Sk   Short-term value: 560 mg/m³, 150 ppm   Long-term value: 375 mg/m³, 100 ppm   Sk   Short-term value: 320 mg/m³, 1500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1488 mg/m³, 400 ppm   Long-term value: 1748 mg/m³, 200 ppm   Long-term value: 374 mg/m³, 200 ppm   Long-term value: 899 mg/m³, 300 ppm   Long-term value: 600 mg/m³, 200 ppm   Sk, BMGV   Short-term value: 384 mg/m³, 100 ppm   Long-term value: 191 mg/m³, 50 ppm   Sk   Short-term value: 191 mg/m³, 50 ppm   Sk   Short-term value: 194 mg/m³, 50 ppm   Long-term value: 154 mg/m³, 50 ppm   Long-term value: 154 mg/m³, 50 ppm   Long-term value: 155 mg/m³, 100 ppm   Long-term value: 95 mg/m³, 20 ppm   Sk   Short-term value: 415 mg/m³, 100 ppm   Long-term value: 430 mg/m³, 20 ppm   Sk   Short-term value: 430 mg/m³, 100 ppm   Long-term value: 430 mg/m³, 50 ppm   Sk   Short-term value: 430 mg/m³, 50 ppm   Long-term			
WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk  67-64-1 Acetone  WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm  141-78-6 Ethyl acetate  WEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm  78-93-3 Methyl ethyl ketone  WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm  Sk, BMGV  108-88-3 Toluene  WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm  Sk  78-83-1 Isobutanol  WEL Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 ppm  110-12-3 5-Methylhexan-2-one  WEL Short-term value: 475 mg/m³, 100 ppm Long-term value: 95 mg/m³, 20 ppm  Sk  100-42-5 Styrene  WEL Short-term value: 430 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sk BMGV  Ingredients with biological limit values:  1330-20-7 Xylene  BMGV [650 mmol/mol creatinine Medium: urine Sampling time: post shift			
Long-term value: 375 mg/m³, 100 ppm  Sk  67-64-1 Acetone  WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm 141-78-6 Ethyl acetate  WEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm  78-93-3 Methyl ethyl ketone  WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV  108-88-3 Toluene  WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk  78-83-1 Isobutanol  WEL Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 ppm 110-12-3 5-Methylhexan-2-one  WEL Short-term value: 475 mg/m³, 100 ppm Long-term value: 95 mg/m³, 20 ppm Sk  100-42-5 Styrene  WEL Short-term value: 430 mg/m³, 250 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 430 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sk  Short-term value: 208 mg/m³, 50 ppm Long-term value: 208 mg/m³, 50 ppm Sk, BMGV Ingredients with biological limit values: 1330-20-7 Xylene  BMGV [650 mmol/mol creatinine Medium: urine Sampling time: post shift	107-9	8-2 1-methoxy-2-propanol	
Sk   Scot-term value: 3620 mg/m³, 1500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1210 mg/m³, 500 ppm   Long-term value: 1468 mg/m³, 400 ppm   Long-term value: 734 mg/m³, 200 ppm   Respective to the process of	WEL	Short-term value: 560 mg/m³, 150 ppm	
## Short-term value: 3620 mg/m³, 1500 ppm   Long-term value: 1210 mg/m³, 500 ppm   ## Long-term value: 1210 mg/m³, 500 ppm   ## Long-term value: 1468 mg/m³, 400 ppm   Long-term value: 734 mg/m³, 200 ppm   ## R-93-3 Methyl ethyl ketone   ## WEL Short-term value: 899 mg/m³, 300 ppm   Long-term value: 600 mg/m³, 200 ppm   Sk, BMGV   ## Bhort-term value: 384 mg/m³, 100 ppm   Long-term value: 191 mg/m³, 50 ppm   Sk   ## Short-term value: 231 mg/m³, 75 ppm   Long-term value: 154 mg/m³, 50 ppm   ## Long-term value: 475 mg/m³, 100 ppm   Long-term value: 95 mg/m³, 20 ppm   Sk   ## Bhort-term value: 475 mg/m³, 100 ppm   Long-term value: 430 mg/m³, 250 ppm   Long-term value: 430 mg/m³, 100 ppm   Long-term value: 430 mg/m³, 100 ppm   Long-term value: 430 mg/m³, 100 ppm   Long-term value: 430 mg/m³, 50 ppm   Long-term value: 208 mg/m³, 50 ppm   Sk, BMGV   ## BMGV   Ingredients with biological limit values: 1330-20-7 Xylene   BMGV   650 mmol/mol creatinine   Medium: urine   Sampling time: post shift			
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Medium: urine Sampling time: post shift	1330-	20-7 Xylene	
Sampling time: post shift	BMG\		



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#### 78-93-3 Methyl ethyl ketone

#### BMGV 70 µmol/L

Medium: urine

Sampling time: post shift Parameter: butan-2-one

#### 108-10-1 4-methylpentan-2-one

#### BMGV 20 µmol/L

Medium: urine

Sampling time: post shift

Parameter: 4-methylpentan-2-one

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

Filter AX



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.

#### · 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 Value for the permeation: Level  $\leq 1$
- · Eye/face protection



Tightly sealed goggles



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## SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical 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 Highly flammable.

· Lower and upper explosion limit

· **Lower:** 0.7 Vol % (64742-95-6 Hydrocarbons, C9,

aromatics)

· **Upper:** 7.5 Vol % (123-86-4 n-Butyl acetate)

• Flash point: -4 °C (DIN 53213)

· Auto-ignition temperature: 315 °C (DIN 51794, 108-65-6 2-Methoxy-1-

methylethyl acetate) Not determined.

Decomposition temperature: Not determined.pH Not determined.

· Viscositv:

· 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

Density and/or relative density

Density at 20 °C: 0.876 g/cm³ (DIN 53217)

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

• **VOC (EC)** 99.04 % • **Solids content (weight-%):** 0.1 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure

Void

Void

· Flammable liquids Highly flammable liquid and vapour.

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		(Contd. of page 7)
· 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	
· Corrosive to metals	Void	
· 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

## 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.
- · 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

78-93-3 Methyl ethyl ketone

List II

## **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

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish

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· 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.

Harmful to aquatic organisms

## 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.

SEC	HON	14: I	ransp	ort in	itorma	ition

· 14.1	UN	number	or ID	number	
14.1	UN	number	טו זט	Hullibei	

· ADR, IMDG, IATA UN1263

· 14.2 UN proper shipping name

· **ADR** UN1263 PAINT RELATED MATERIAL

· IMDG, IATA PAINT RELATED MATERIAL

- · 14.3 Transport hazard class(es)
- · ADR



· Class 3 (F1) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA //

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): 33

· EMS Number: F-E,S-E

· Stowage Category B

· 14.7 Maritime transport in bulk according to

**IMO instruments** Not applicable.

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· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	5L 2 D/F
· IMDG · Limited quantities (LQ)	5L
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act

1 0130113 ACC	
Regulated explosives precursors	
None of the ingredients is listed.	
D	

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

67-64-1 Acetone 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	1 11 - 1 - 1	<sup>,</sup> flammable	111	1	
ロック	HIANN	ainemeit	וומוומ	200	Vanalir
11223	IIIUIIIV	Hallillavic	nauna	anu	vaucui.

H226 Flammable liquid and vapour.

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.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

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H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

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

Carc. 2: Carcinogenicity - Category 2

Repr. 2: Reproductive toxicity - Category 2

Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

\* Data compared to the previous version altered.