

Trade name: Hesse UNA-COLOR ring proof, silky gloss PEX DB 45577-FT

Version: 17 / WORLD

Revision: 22.10.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

1.1. Product identifier

Hesse UNA-COLOR ring proof, silky gloss PEX DB 45577-FT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Surface treatment of wood and other materials

Identified Uses

| | |
|--------|--|
| ----- | |
| | REACHSET 1000 |
| SU3 | Industrial uses: Uses of substances as such or in preparations at industrial sites |
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |
| PROC7 | Industrial spraying |
| ----- | |
| | REACHSET 1001 |
| SU3 | Industrial uses: Uses of substances as such or in preparations at industrial sites |
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |
| PROC13 | Treatment of articles by dipping and pouring |
| ----- | |
| | REACHSET 2001 |
| SU22 | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8c | Wide dispersive indoor use resulting in inclusion into or onto a matrix |
| PROC11 | Non industrial spraying |

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hesse GmbH & Co. KG
Warendorfer Strasse 21
59075 Hamm (Germany)
Telephone no. +49 (0) 2381 963-00
Fax no. +49 (0) 2381 963-849
E-mail address ps@hesse-lignal.de

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 2 H225

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STOT SE 3

H336

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains 2-methoxy-1-methylethyl acetate; ethyl acetate; n-butyl acetate; isobutyl acetate

EUH208 Contains methyl methacrylate, May produce an allergic reaction.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

n-butyl acetate

| | | |
|--|------------------|---|
| CAS No. | 123-86-4 | |
| EINECS no. | 204-658-1 | |
| Registration no. | 01-2119485493-29 | |
| Concentration | >= 50 | % |
| Classification (Regulation (EC) No. 1272/2008) | | |
| Flam. Liq. 3 | H226 | |

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| | | | |
|--|--------------------------------|----------------|--|
| | STOT SE 3 | H336 EUH066 | Nervous system |
| ethyl acetate | | | |
| CAS No. | 141-78-6 | | |
| EINECS no. | 205-500-4 | | |
| Registration no. | 01-2119475103-46 | | |
| Concentration | >= 1 | < 6 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Flam. Liq. 2 | H225 | |
| | Eye Irrit. 2 | H319 | |
| | STOT SE 3 | H336 EUH066 | Nervous system |
| 2-methoxy-1-methylethyl acetate | | | |
| CAS No. | 108-65-6 | | |
| EINECS no. | 203-603-9 | | |
| Registration no. | 01-2119475791-29 | | |
| Concentration | >= 1 | < 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Flam. Liq. 3 | H226 | |
| | STOT SE 3 | H336 | |
| isobutyl acetate | | | |
| CAS No. | 110-19-0 | | |
| EINECS no. | 203-745-1 | | |
| Registration no. | 01-2119488971-22 | | |
| Concentration | >= 1 | < 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Flam. Liq. 2 | H225 | |
| | STOT SE 3 | H336 EUH066 | Nervous system |
| xylene | | | |
| CAS No. | 1330-20-7 | | |
| EINECS no. | 215-535-7 | | |
| Registration no. | 01-2119488216-32 | | |
| Concentration | >= 1 | < 3 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Flam. Liq. 3 | H226 | |
| | Acute Tox. 4 | H332 | Route of exposure: Inhalation exposure |
| | Acute Tox. 4 | H312 | Route of exposure: Dermal exposure |
| | Skin Irrit. 2 | H315 | |
| | Asp. Tox. 1 | H304 | |
| | STOT SE 3 | H335 | Respiratory tract; Route of exposure: inhalative |
| | Eye Irrit. 2 | H319 | |
| ATE | Dermal exposure | 2.000 | mg/kg |
| ATE | Inhalation exposure, Dust/Mist | 5 | mg/l |

Hydrocarbons, C9, aromatics

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| | | | |
|--|------------------|-----|-------------------|
| CAS No. | 128601-23-0 | | |
| EINECS no. | 918-668-5 | | |
| Registration no. | 01-2119455851-35 | | |
| Concentration | >= 1 | < 3 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| Flam. Liq. 3 | H226 | | |
| Asp. Tox. 1 | H304 | | |
| Aquatic Chronic 2 | H411 | | |
| STOT SE 3 | H335 | | Respiratory tract |
| STOT SE 3 | H336 | | Nervous system |
| | EUH066 | | |

methyl methacrylate

| | | | |
|--|------------------|-----|-------------------|
| CAS No. | 80-62-6 | | |
| EINECS no. | 201-297-1 | | |
| Registration no. | 01-2119452498-28 | | |
| Concentration | >= 0,1 | < 1 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| Flam. Liq. 2 | H225 | | |
| STOT SE 3 | H335 | | Respiratory tract |
| Skin Irrit. 2 | H315 | | |
| Skin Sens. 1 | H317 | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If unconscious place in recovery position and seek medical advice. In all cases of doubt, or when symptoms persist, seek medical attention. First aider: Pay attention to self-protection! Remove affected person from danger area, lay him down.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep warm, calm and covered up. In all cases of doubt, or when symptoms persist, seek medical attention.

After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

After ingestion

Do not induce vomiting. Take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

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Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist

Non suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced.

Exposure to decomposition products may cause a health hazard. Vapours can form an explosive mixture with air.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion evolution of dangerous gases possible. Use self-contained breathing apparatus.

Other information

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Do not inhale vapours. Do not inhale gases. Do not inhale mist.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of

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vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Fight fire with normal precautions from a reasonable distance.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Keep only in the original container in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

Further information on storage conditions

Protect from frost. Protect from heat and direct sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

2-methoxy-1-methylethyl acetate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 275 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 153,5 | mg/kg/d |

| | | |
|----------------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |

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Concentration 1,67 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 33 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Dermal exposure

Mode of action Systemic effects

Concentration 54,8 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Acute

Route of exposure inhalative

Mode of action Local effects

Concentration 550 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Local effects

Concentration 33 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Acute

Route of exposure inhalative

Mode of action Local effects

Concentration 33 mg/m³

ethyl acetate

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term

Route of exposure Dermal exposure

Mode of action Systemic effects

Concentration 63 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

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| | | |
|----------------------|--------------------------------|-------------------|
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 1468 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 1468 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 37 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 367 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |

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| | | |
|---------------|-----|---------|
| Concentration | 4,5 | mg/kg/d |
|---------------|-----|---------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|----------|
| Reference group | Consumer |
|-----------------|----------|

| | |
|----------------------|-----------|
| Duration of exposure | Long-term |
|----------------------|-----------|

| | |
|-------------------|------------|
| Route of exposure | inhalative |
|-------------------|------------|

| | |
|----------------|---------------|
| Mode of action | Local effects |
|----------------|---------------|

| | | |
|---------------|-----|-------------------|
| Concentration | 367 | mg/m ³ |
|---------------|-----|-------------------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|--------|
| Reference group | Worker |
|-----------------|--------|

| | |
|----------------------|-----------|
| Duration of exposure | Long term |
|----------------------|-----------|

| | |
|-------------------|--------|
| Route of exposure | dermal |
|-------------------|--------|

| | |
|----------------|---------------|
| Mode of action | Local effects |
|----------------|---------------|

| | | |
|---------------|----|-------|
| Concentration | 63 | mg/kg |
|---------------|----|-------|

n-butyl acetate

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|------------------------|
| Reference group | Workers (professional) |
|-----------------|------------------------|

| | |
|----------------------|-----------|
| Duration of exposure | Long-term |
|----------------------|-----------|

| | |
|-------------------|-----------------|
| Route of exposure | Dermal exposure |
|-------------------|-----------------|

| | |
|----------------|------------------|
| Mode of action | Systemic effects |
|----------------|------------------|

| | | |
|---------------|----|---------|
| Concentration | 11 | mg/kg/d |
|---------------|----|---------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|------------------------|
| Reference group | Workers (professional) |
|-----------------|------------------------|

| | |
|----------------------|------------|
| Duration of exposure | Short-term |
|----------------------|------------|

| | |
|-------------------|------------|
| Route of exposure | inhalative |
|-------------------|------------|

| | |
|----------------|------------------|
| Mode of action | Systemic effects |
|----------------|------------------|

| | | |
|---------------|-----|-------------------|
| Concentration | 600 | mg/m ³ |
|---------------|-----|-------------------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|------------------------|
| Reference group | Workers (professional) |
|-----------------|------------------------|

| | |
|----------------------|------------|
| Duration of exposure | Short-term |
|----------------------|------------|

| | |
|-------------------|------------|
| Route of exposure | inhalative |
|-------------------|------------|

| | |
|----------------|---------------|
| Mode of action | Local effects |
|----------------|---------------|

| | | |
|---------------|-----|-------------------|
| Concentration | 600 | mg/m ³ |
|---------------|-----|-------------------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|------------------------|
| Reference group | Workers (professional) |
|-----------------|------------------------|

| | |
|----------------------|-----------|
| Duration of exposure | Long-term |
|----------------------|-----------|

| | |
|-------------------|------------|
| Route of exposure | inhalative |
|-------------------|------------|

| | |
|----------------|---------------|
| Mode of action | Local effects |
|----------------|---------------|

| | | |
|---------------|-----|-------------------|
| Concentration | 300 | mg/m ³ |
|---------------|-----|-------------------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|------------------------|
| Reference group | Workers (professional) |
|-----------------|------------------------|

| | |
|----------------------|-----------|
| Duration of exposure | Long-term |
|----------------------|-----------|

| | |
|-------------------|------------|
| Route of exposure | inhalative |
|-------------------|------------|

| | |
|----------------|------------------|
| Mode of action | Systemic effects |
|----------------|------------------|

| | | |
|---------------|-----|-------------------|
| Concentration | 300 | mg/m ³ |
|---------------|-----|-------------------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
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| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 6 | mg/kg/d |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 2 | mg/kg/d |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 300 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 300 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 35,7 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 35,7 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short term | |
| Route of exposure | oral | |
| Mode of action | Specific effects | |
| Concentration | 2 | mg/kg/d |

| | | |
|----------------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Specific effects | |

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| Concentration | 6 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Specific effects | |
| Concentration | 11 | mg/kg/d |

xylene

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 125 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 212 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 65,3 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 260 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 174 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 442 | mg/m ³ |

| | | |
|---------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
|---------------|--------------------------------|--|

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| | | |
|----------------------|------------------------|-------------------|
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 221 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 289 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 289 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 12,5 | mg/kg/d |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Local effects | |
| Concentration | 174 | mg/kg/d |

Hydrocarbons, C9, aromatics

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 11 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 25 | mg/kg |

| | | |
|----------------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |

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| | | |
|----------------|------------------|-------|
| Mode of action | Systemic effects | |
| Concentration | 11 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 150 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 32 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 11 | mg/kg |

methyl methacrylate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 210 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 210 | mg/m ³ |

| | | |
|----------------------|--------------------------------|--------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Local effects | |
| Concentration | 1,5 | mg/cm ² |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 13,67 | mg/kg/d |

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| | | |
|----------------------|--------------------------------|--------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Short-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Local effects | |
| Concentration | 1,5 | mg/cm ² |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 105 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 74,3 | mg/m ³ |

| | | |
|----------------------|--------------------------------|--------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Local effects | |
| Concentration | 1,5 | mg/cm ² |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 8,2 | mg/kg/d |

| | | |
|----------------------|--------------------------------|--------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Local effects | |
| Concentration | 1,5 | mg/cm ² |

isobutyl acetate

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 10 | mg/kg/d |

| | | |
|----------------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |

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| | | |
|----------------------|--------------------------------|-------------------|
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 300 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 300 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 5 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 35,7 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 35,7 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 300 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 300 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 600 | mg/m ³ |

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| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 600 | mg/m ³ |

Predicted No Effect Concentration (PNEC)

2-methoxy-1-methylethyl acetate

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,635 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,0635 | mg/l |
| Type of value | PNEC | |
| Conditions | sporadic release | |
| Concentration | 6,35 | mg/l |
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 3,29 | mg/kg |
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 0,329 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,29 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 100 | mg/l |

ethyl acetate

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,026 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,26 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,24 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |

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Concentration 650 mg/l

Type of value PNEC
Type saltwater sediment

Concentration 0,125 mg/kg

Type of value PNEC
Type Fresh water sediment

Concentration 1,25 mg/kg

Type of value PNEC
Conditions sporadic release

Concentration 1,65 mg/l

n-butyl acetate

Type of value PNEC
Type Freshwater

Concentration 0,18 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,018 mg/l

Type of value PNEC
Type Sewage treatment plant (STP)

Concentration 35,6 mg/l

Type of value PNEC
Type Water

Conditions sporadic release

Concentration 0,36 mg/l

Type of value PNEC
Type Fresh water sediment

Concentration 0,981 mg/kg

Type of value PNEC
Type saltwater sediment

Concentration 0,0981 mg/l

Type of value PNEC
Type Soil

Concentration 0,0903 mg/kg

xylene

Type of value PNEC
Type Freshwater

Concentration 0,327 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,327 mg/l

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| | | |
|---------------|----------------------|-------|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 12,46 | mg/kg |

| | | |
|---------------|--------------------|-------|
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 12,46 | mg/kg |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2,31 | mg/kg |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 6,58 | mg/l |

methyl methacrylate

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,94 | mg/l |

| | | |
|---------------|--------------|------|
| Type of value | PNEC | |
| Type | marine water | |
| Concentration | 0,094 | mg/l |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 1,47 | mg/kg |

isobutyl acetate

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,17 | mg/l |

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,017 | mg/l |

| | | |
|---------------|------------------|------|
| Type of value | PNEC | |
| Type | Water | |
| Conditions | sporadic release | |
| Concentration | 0,34 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 200 | mg/l |

| | | |
|---------------|----------------------|-------|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 0,877 | mg/kg |

| | | |
|---------------|--------------------|--|
| Type of value | PNEC | |
| Type | saltwater sediment | |

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| | | |
|---------------|--------|-------|
| Concentration | 0,0877 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,0755 | mg/kg |

8.2. Exposure controls

Exposure controls

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness \geq 0,7 mm

Breakthrough time \geq 30 min

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|--------------|
| Physical state | liquid |
| Colour | coloured |
| Odour | solvent-like |

Melting point

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Value 74 to 200 °C

Flammability

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not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value 21 to 22 °C

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Remarks Not applicable

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Value appr. 0,981 kg/l
Temperature 20 °C

Relative vapour density

Remarks not determined

Particle characteristics

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate

Remarks not determined

Solubility in water

Remarks not determined

Efflux time

Value 45 to 45 s
Temperature 20 °C
Method DIN 53211 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

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| | | |
|--------|------------------|---|
| Value | 32,4 | % |
| Method | calculated value | |

Other information

This information is not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO_x), dense black smoke, No decomposition if used as prescribed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Acute dermal toxicity

| | | |
|--------|--|-------|
| ATE | > 10.000 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | |

Acute dermal toxicity (Components)

xylene

| | | |
|--------|----------------------------|-------|
| ATE | 2000 | mg/kg |
| Source | alle Daten über 2000 mg/kg | |

Acute inhalational toxicity

| | | |
|---------------------|---|------|
| ATE | > 20 | mg/l |
| Administration/Form | Dust/Mist | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | |
| Remarks | Based on available data, the classification criteria are not met. | |

Acute inhalative toxicity (Components)

xylene

| | | |
|----------------------|------------------------|------|
| ATE | 5 | mg/l |
| Duration of exposure | 4 h | |
| Administration/Form | Dust/Mist | |
| Source | alle Werte über 5 mg/l | |

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Skin corrosion/irritation

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Skin corrosion/irritation (Components)

xylene

| | |
|--------------------|--------------------------------|
| Species | rabbit |
| Observation Period | 72 h |
| evaluation | Irritating to skin. |
| Source | 2 (reliable with restrictions) |

methyl methacrylate

| | |
|------------|---------------------|
| evaluation | Irritating to skin. |
|------------|---------------------|

Serious eye damage/irritation

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Serious eye damage/irritation (Components)

ethyl acetate

| | |
|--------------------|--------------------------------|
| Species | rabbit |
| Observation Period | 24 h |
| evaluation | Irritating to eyes. |
| Source | 2 (reliable with restrictions) |

xylene

| | |
|------------|--------------------------------|
| Species | rabbit |
| evaluation | Irritating to eyes. |
| Source | 2 (reliable with restrictions) |

Sensitization

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Sensitization (Components)

methyl methacrylate

| | |
|------------|--|
| Species | mouse |
| evaluation | May cause sensitization by skin contact. |

Mutagenicity

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Reproductive toxicity

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Carcinogenicity

| | |
|---------|---|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | Based on available data, the classification criteria are not met. |

Specific Target Organ Toxicity (STOT)

Single exposure

| | |
|------------|--|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | The classification criteria are met. |
| evaluation | May cause drowsiness or dizziness. |

Repeated exposure

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Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) (Components)

2-methoxy-1-methylethyl acetate

Specific target organ toxicity - repeated exposure

evaluation May cause drowsiness or dizziness.
Organs: Nervous system

ethyl acetate

Specific target organ toxicity - single exposure

Organs: Nervous system
Remarks Possible narcotic effects (drowsiness, dizziness).

n-butyl acetate

Specific target organ toxicity - repeated exposure

Organs: Nervous system
Remarks Possible narcotic effects (drowsiness, dizziness).

xylene

Specific target organ toxicity - single exposure

Route of exposure inhalative
Organs: Respiratory tract
Remarks May cause respiratory irritation.

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Route of exposure inhalative
Remarks Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks Possible narcotic effects (drowsiness, dizziness).

methyl methacrylate

Specific target organ toxicity - single exposure

Organs: Respiratory tract
Remarks May cause respiratory irritation.

isobutyl acetate

Specific target organ toxicity - repeated exposure

Organs: Nervous system
Remarks Possible narcotic effects (drowsiness, dizziness).

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information

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12.1. Toxicity

General information

For this subsection there is no ecotoxicological data available on the product as such.

Fish toxicity (Components)

Hydrocarbons, C9, aromatics

| | | | |
|----------------------|-------------------------------------|---|------|
| Species | Oncorhynchus mykiss (rainbow trout) | | |
| LC50 | 9,2 | | mg/l |
| Duration of exposure | 96 | h | |

methyl methacrylate

| | | | |
|----------------------|--------------------------------------|---|------|
| Species | Pimephales promelas (fathead minnow) | | |
| LC50 | 130 | | mg/l |
| Duration of exposure | 96 | h | |

Daphnia toxicity (Components)

Hydrocarbons, C9, aromatics

| | | | |
|----------------------|----------------------------|---|------|
| Species | Daphnia magna (Water flea) | | |
| EC50 | 3,2 | | mg/l |
| Duration of exposure | 48 | h | |

Hydrocarbons, C9, aromatics

| | | | |
|----------------------|----------------------------|---|------|
| Species | Daphnia magna (Water flea) | | |
| NOEC | 2,14 | | mg/l |
| Duration of exposure | 21 | d | |

Algae toxicity (Components)

Hydrocarbons, C9, aromatics

| | | | |
|----------------------|---|----|----------|
| Species | Pseudokirchneriella subcapitata (green algae) | | |
| EC50 | 2,6 | to | 2,9 mg/l |
| Duration of exposure | 72 | h | |

12.2. Persistence and degradability

General information

For this subsection there is no ecotoxicological data available on the product as such.

Biodegradability (Components)

Hydrocarbons, C9, aromatics

| | |
|------------|------------------------|
| evaluation | Readily biodegradable. |
|------------|------------------------|

12.3. Bioaccumulative potential

General information

For this subsection there is no ecotoxicological data available on the product as such.

Partition coefficient n-octanol/water (log value)

| | |
|---------|----------------|
| Remarks | not determined |
|---------|----------------|

12.4. Mobility in soil

General information

For this subsection there is no ecotoxicological data available on the product as such.

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment



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General information

For this subsection there is no ecotoxicological data available on the product as such.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

For this subsection there is no ecotoxicological data available on the product as such.

General information / ecology

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information




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| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|--|--|---|
| Tunnel restriction code | D/E | | |
| 14.1. UN number | 1263 | 1263 | 1263 |
| 14.2. UN proper shipping name | PAINT | PAINT | PAINT |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| Label |  |  |  |
| 14.4. Packing group | II | II | II |
| Special provision | 640D | | |
| Remarks | The product is viscous; packing group III in containers with not more than 450 ltrs. | The product is viscous; packing group III in containers with not more than 450 ltrs. | Transport in accordance with 3.3.3.1 of the IATA regulations |
| Limited Quantity | 5 l | | |
| Transport category | 2 | | |
| 14.5. Environmental hazards | - | | |

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information ***

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

Major-accident categories acc. 2012/18/EU

| | | | | | | |
|----------|-----|------------------|-----------|----|------------|----|
| Category | P5c | FLAMMABLE LIQUID | 5.000.000 | kg | 50.000.000 | kg |
|----------|-----|------------------|-----------|----|------------|----|

VOC ***

| | | | | |
|----------|------|---|-----|-----|
| VOC (EU) | 67,6 | % | 663 | g/l |
|----------|------|---|-----|-----|

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Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3.

15.2. Chemical safety assessment

For this substance / mixture a chemical safety assessment was not carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

CLP categories listed in Chapter 3

| | |
|-------------------|--|
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

Changes since the last version are highlighted in the margin (***). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES001 - Industrial applications: industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

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Use

| | |
|-------|--|
| SU3 | Industrial uses: Uses of substances as such or in preparations at industrial sites |
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |
| PROC7 | Industrial spraying |

Contributing exposure scenario controlling environmental exposure

Use

| | |
|------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |

Physical form

liquid

Maximum amount used per time or activity

Emission days per site: <= 300

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.
Where possible recycling is preferred to disposal or incineration.
Do not allow to enter soil, waterways or waste water canal.
Dispose of rinse water in accordance with local and national regulations.

Waste water

Do not discharge into the drains/surface waters/groundwater. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

Floors should be impervious, resistant to liquids and easy to clean.

Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.
Do not allow to enter drains or waterways.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure

Use

| | |
|-------|--|
| SU3 | Industrial uses: Uses of substances as such or in preparations at industrial sites |
| PROC7 | Industrial spraying |

Physical form

liquid

Maximum amount used per time or activity

| | | | |
|-----------------------|----|-----|-----|
| Duration of exposure | <= | 8 | h/d |
| Frequency of exposure | <= | 220 | d/a |

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.
Read attached instructions before use.

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Product substance and product safety related measures

Mainly used in closed systems. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness \geq 0,7

Breakthrough time \geq 30

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

Exposure estimation and reference to its source

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 27,54 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 2,14 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,01 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-------------------|--|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - local and systemic |

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| | | |
|-----------------------------------|---------------------------------|-------------------|
| Exposure assessment | 55,08 | mg/m ³ |
| Exposure assessment (method) | ECETOC TRA | |
| Risk characterisation ratio (RCR) | 0,2 | |
| Lead substance | 2-methoxy-1-methylethyl acetate | |

Workers (industrial)

| | | |
|-----------------------------------|--|---------|
| SU | SU3 | |
| PROC | PROC10 | |
| Assessment method | dermal, long-term - local and systemic | |
| Exposure assessment | 27,43 | mg/kg/d |
| Exposure assessment (method) | ECETOC TRA | |
| Risk characterisation ratio (RCR) | 0,18 | |
| Lead substance | 2-methoxy-1-methylethyl acetate | |

Workers (industrial)

| | | |
|-----------------------------------|--|-------------------|
| SU | SU3 | |
| PROC | PROC13 | |
| Assessment method | inhalation, long-term - local and systemic | |
| Exposure assessment | 55,08 | mg/m ³ |
| Exposure assessment (method) | ECETOC TRA | |
| Risk characterisation ratio (RCR) | 0,2 | |
| Lead substance | 2-methoxy-1-methylethyl acetate | |

Workers (industrial)

| | | |
|-----------------------------------|--|---------|
| SU | SU3 | |
| PROC | PROC13 | |
| Assessment method | dermal, long-term - local and systemic | |
| Exposure assessment | 13,71 | mg/kg/d |
| Exposure assessment (method) | ECETOC TRA | |
| Risk characterisation ratio (RCR) | 0,09 | |
| Lead substance | 2-methoxy-1-methylethyl acetate | |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Risk characterisation ratio (RCR) | 0,75 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|------------------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | dermal, long-term - systemic |
| | Indoor use |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

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SU
PROC
Assessment method
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

SU
PROC
Assessment method
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

SU
PROC
Assessment method
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

PROC
Assessment method

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

PROC
Assessment method

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

PROC
Assessment method

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

PROC
Assessment method

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

Workers (industrial)

SU3
PROC10
dermal, long-term - systemic
0,5
4-methylpentan-2-one

SU3
PROC13
inhalation, long-term - systemic
0,5
4-methylpentan-2-one

SU3
PROC13
dermal, long-term - systemic
0,5
4-methylpentan-2-one

PROC7
inhalation, long-term - local and systemic
Indoor use
60,5 mg/m³
ECETOC TRA
0,126
n-butyl acetate

PROC10
inhalation, long-term - systemic
Indoor use
242 mg/m³
ECETOC TRA
0,504
n-butyl acetate

PROC10
inhalation, long-term - systemic
Outdoor use
242 mg/m³
ECETOC TRA
0,504
n-butyl acetate

PROC13
inhalation, long-term - systemic
Indoor use
242 mg/m³
ECETOC TRA
0,504
n-butyl acetate

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| | |
|-----------------------------------|----------------------------------|
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 242 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

Workers (industrial)

| | |
|-----------------------------------|-----------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,1 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,34 |
| Lead substance | xylene |

Workers (industrial)

| | |
|-----------------------------------|------------------------|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,05 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,172 |
| Lead substance | xylene |

Workers (industrial)

| | |
|-----------------------------------|-----------------------|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,1 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,34 |
| Lead substance | xylene |

Information on estimated exposure and downstream-user guidance

Guidance for Downstream Users

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES002 - Industrial applications: rolling, dipping, pouring and other processing without aerosol formation (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

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| | |
|---------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |
| PROCh01 | Other processing without aerosol formation |
| PROCh02 | roller coating industrial |
| PROC13 | Treatment of articles by dipping and pouring |

Contributing exposure scenario controlling environmental exposure

Use

| | |
|------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |

Physical form

liquid

Maximum amount used per time or activity

Emission days per site: <= 300

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.
Where possible recycling is preferred to disposal or incineration.
Do not allow to enter soil, waterways or waste water canal.
Dispose of rinse water in accordance with local and national regulations.

Waste water

Do not discharge into the drains/surface waters/groundwater.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

Floors should be impervious, resistant to liquids and easy to clean.

Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.
Do not allow to enter drains or waterways.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure

Use

| | |
|---------|--|
| SU3 | Industrial uses: Uses of substances as such or in preparations at industrial sites |
| PROCh01 | Other processing without aerosol formation |
| PROCh02 | roller coating industrial |
| PROC13 | Treatment of articles by dipping and pouring |

Physical form

liquid

Maximum amount used per time or activity

| | | | |
|-----------------------|----|-----|-----|
| Duration of exposure | <= | 8 | h/d |
| Frequency of exposure | <= | 220 | d/a |

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.

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Read attached instructions before use.

Product substance and product safety related measures

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness \geq 0,7

Breakthrough time \geq 30

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

Exposure estimation and reference to its source

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 27,54 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 2,14 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,01 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|------|--------|
| SU | SU3 |
| PROC | PROC10 |

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| | |
|-----------------------------------|--|
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 55,08 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,2 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 27,43 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,18 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 55,08 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,2 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-----------------------------------|--|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 13,71 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,09 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Risk characterisation ratio (RCR) | 0,75 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|------------------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | dermal, long-term - systemic |
| | Indoor use |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

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Workers (industrial)

| | |
|-----------------------------------|------------------------------|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|------------------------------|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (industrial)

| | |
|-----------------------------------|--|
| PROC | PROC7 |
| Assessment method | inhalation, long-term - local and systemic |
| | Indoor use |
| Exposure assessment | 60,5 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,126 |
| Lead substance | n-butyl acetate |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Exposure assessment | 242 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 242 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Exposure assessment | 242 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

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Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 242 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

Workers (industrial)

| | |
|-----------------------------------|-----------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,1 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,34 |
| Lead substance | xylene |

Workers (industrial)

| | |
|-----------------------------------|------------------------|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,05 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,172 |
| Lead substance | xylene |

Workers (industrial)

| | |
|-----------------------------------|-----------------------|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,1 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,34 |
| Lead substance | xylene |

Information on estimated exposure and downstream-user guidance

Guidance for Downstream Users

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

Trade name: Hesse UNA-COLOR ring proof, silky gloss PEX DB 45577-FT

Version: 17 / WORLD

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| | |
|--------|--|
| SU22 | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8c | Wide dispersive indoor use resulting in inclusion into or onto a matrix |
| PROC11 | Non industrial spraying |

Contributing exposure scenario controlling environmental exposure

Use

| | |
|-------|---|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8c | Wide dispersive indoor use resulting in inclusion into or onto a matrix |

Physical form

liquid

Maximum amount used per time or activity

Emission days per site: <= 250

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.
Volatile organic substances will volatilise into the atmospheric air inside.
Where possible recycling is preferred to disposal or incineration.
Do not allow to enter soil, waterways or waste water canal.
Dispose of rinse water in accordance with local and national regulations.

Waste water

Do not discharge into the drains/surface waters/groundwater. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

Floors should be impervious, resistant to liquids and easy to clean.

Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.
Do not allow to enter drains or waterways.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)

Short title of the exposure scenario

Substance number:CES006

Use

| | |
|--------|--|
| SU22 | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| PROC11 | Non industrial spraying |

Physical form

liquid

Maximum amount used per time or activity

| | | | |
|-----------------------|----|-----|-----|
| Duration of exposure | <= | 8 | h/d |
| Frequency of exposure | <= | 220 | d/a |

Other relevant operational conditions

Trade name: Hesse UNA-COLOR ring proof, silky gloss PEX DB 45577-FT

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Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

Product substance and product safety related measures

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol.

Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness $\geq 0,7$

Breakthrough time ≥ 30

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

Exposure estimation and reference to its source

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 55,08 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,2 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 13,71 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,09 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

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Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 137,71 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 27,43 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,18 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - local and systemic |
| | Indoor use |
| Exposure assessment | 27,54 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - local and systemic |
| | Indoor use |
| Exposure assessment | 2,14 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,01 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - local and systemic |
| | Outdoor use |
| Exposure assessment | 55,08 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,2 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|------------------------------|--|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - local and systemic |
| | Outdoor use |
| Exposure assessment | 107,14 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |

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| | |
|-----------------------------------|----------------------------------|
| Risk characterisation ratio (RCR) | 0,7 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| SU | SU21 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | Indoor use |
| Exposure assessment (method) | 6 mg/kg/d |
| Risk characterisation ratio (RCR) | ConsExpo v4.1 |
| Lead substance | 0,11 |
| SU | 2-methoxy-1-methylethyl acetate |
| Assessment method | SU21 |
| Exposure assessment | inhalation, long-term - systemic |
| Exposure assessment (method) | Indoor use |
| Risk characterisation ratio (RCR) | 6,83 mg/m ³ |
| Lead substance | ConsExpo v4.1 |
| SU | 0,6 |
| Assessment method | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|----------------------------------|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|------------------------------|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|----------------------------------|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|------------------------------|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|----------------------------------|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,75 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-------------------|------------------------------|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - systemic |

Trade name: Hesse UNA-COLOR ring proof, silky gloss PEX DB 45577-FT

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Risk characterisation ratio (RCR) 0,5
Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22
PROC PROC11
Assessment method Long-term
inhalative
Exposure assessment 242 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,504
Lead substance n-butyl acetate

Workers (professional)

SU SU22
PROC PROC10
Assessment method inhalative
Indoor use
Exposure assessment 0,05 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,172
Lead substance xylene

Workers (professional)

SU SU22
PROC PROC11
Assessment method inhalative
Indoor use
Exposure assessment 0,1 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,34
Lead substance xylene

Workers (professional)

SU SU22
PROC PROC13
Assessment method inhalative
Indoor use
Exposure assessment 0,05 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,172
Lead substance xylene

Information on estimated exposure and downstream-user guidance

Guidance for Downstream Users

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.