

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / ZA

Revision: 06.07.2025

Replaces Version: 16 / ZA

Print date: 01.12.25

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

### 1.1. Product identifier

Hesse Metallic Structure lacquer, matt PEX DB 46732-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 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 |
| STOT SE 3         | H336 |
| Aquatic Chronic 3 | H412 |

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

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## 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.                 |
| H412 | Harmful to aquatic life with long lasting effects. |

### 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.  |
| P273      | Avoid release to the environment.  |
| 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.  |

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

|          |   |
|----------|---|
| contains | acetone; ethyl acetate; isobutyl acetate; 2-methoxy-1-methylethyl acetate |
|----------|---|

### 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                                  | >= 25            | < 50   | %              |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 3     | H226   |                |
|  | STOT SE 3        | H336   | Nervous system |
|  |                  | EUH066 |                |

#### 2-methoxy-1-methylethyl acetate

|                  |                  |
|------------------|------------------|
| CAS No.          | 108-65-6         |
| EINECS no.       | 203-603-9        |
| Registration no. | 01-2119475791-29 |

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|  |    |   |      |    |   |
|--|----|---|------|----|---|
| Concentration                                  | >= | 1 | <    | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) |    |   |      |    |   |
| Flam. Liq. 3                                   |    |   | H226 |    |   |
| STOT SE 3                                      |    |   | H336 |    |   |

**Hydrocarbons, C9, aromatics**

|  |                  |   |        |    |                   |
|--|------------------|---|--------|----|-------------------|
| CAS No.  | 128601-23-0      |   |        |    |                   |
| EINECS no.                                     | 918-668-5        |   |        |    |                   |
| Registration no.                               | 01-2119455851-35 |   |        |    |                   |
| Concentration                                  | >=               | 3 | <      | 10 | %                 |
| 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 |    |                   |

**ethyl acetate**

|  |                  |   |        |   |                |
|--|------------------|---|--------|---|----------------|
| CAS No.  | 141-78-6         |   |        |   |                |
| EINECS no.                                     | 205-500-4        |   |        |   |                |
| Registration no.                               | 01-2119475103-46 |   |        |   |                |
| Concentration                                  | >=               | 1 | <      | 4 | %              |
| Classification (Regulation (EC) No. 1272/2008) |                  |   |        |   |                |
| Flam. Liq. 2                                   |                  |   | H225   |   |                |
| Eye Irrit. 2                                   |                  |   | H319   |   |                |
| STOT SE 3                                      |                  |   | H336   |   | Nervous system |
|  |                  |   | EUH066 |   |                |

**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   |    | Nervous system |
|  |                  |   | EUH066 |    |                |

**acetone**

|  |                  |   |        |   |                |
|--|------------------|---|--------|---|----------------|
| CAS No.  | 67-64-1          |   |        |   |                |
| EINECS no.                                     | 200-662-2        |   |        |   |                |
| Registration no.                               | 01-2119471330-49 |   |        |   |                |
| Concentration                                  | >=               | 1 | <      | 3 | %              |
| Classification (Regulation (EC) No. 1272/2008) |                  |   |        |   |                |
| Flam. Liq. 2                                   |                  |   | H225   |   |                |
| Eye Irrit. 2                                   |                  |   | H319   |   |                |
| STOT SE 3                                      |                  |   | H336   |   | Nervous system |
|  |                  |   | EUH066 |   |                |

**copper**

|         |           |
|---------|-----------|
| CAS No. | 7440-50-8 |
|---------|-----------|

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EINECS no. 231-159-6  
Registration no. 01-2119480154-42  
Concentration  $\geq 1$  < 2 %  
Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 4 H302  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410  
Eye Irrit. 2 H319  
Route of exposure: Oral exposure

ATE Oral exposure 482 mg/kg

#### toluene

CAS No. 108-88-3  
EINECS no. 203-625-9  
Registration no. 01-2119471310-51  
Concentration  $\geq 0,1$  < 1 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225  
Repr. 2 H361d  
Asp. Tox. 1 H304  
STOT RE 2 H373  
Skin Irrit. 2 H315  
STOT SE 3 H336  
Nervous system

#### zinc powder — zinc dust (pyrophoric)

CAS No. 7440-66-6  
EINECS no. 231-175-3  
Registration no. 01-2119467174-37  
Concentration  $\geq 0,1$  < 0,3 %  
Classification (Regulation (EC) No. 1272/2008)  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

### Further ingredients

#### aluminium powder (stabilised)

CAS No. 7429-90-5  
EINECS no. 231-072-3  
Registration no. 01-2119529243-45  
Concentration  $\geq 1$  < 10 %  
Advice: [3]  
Classification (Regulation (EC) No. 1272/2008)  
Water-react. 2 H261  
Flam. Sol. 1 H228

#### ethanol

CAS No. 64-17-5  
EINECS no. 200-578-6  
Registration no. 01-2119457610-43  
Concentration  $\geq 1$  < 10 %  
Advice: [3]  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225

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#### **Note**

[3] Substance with occupational exposure limits

### **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**

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Recommended: alcohol resistant foam, CO<sub>2</sub>, 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.

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### 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 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

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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

#### Exposure limit values

##### acetone

|                           |          |      |        |
|---------------------------|----------|------|--------|
| List                      | OEL (ZA) |      |        |
| Value                     |          | 500  | ppm(V) |
| Short term exposure limit |          | 1000 | ppm(V) |
| Status: 03/2021           |          |      |        |

##### acetone

|                 |     |      |  |
|-----------------|-----|------|--|
| List            | OEL |      |  |
| Type            | BAT |      |  |
| Value           | 25  | mg/l |  |
| Status: 03/2021 |     |      |  |

##### ethyl acetate

|                 |          |     |        |
|-----------------|----------|-----|--------|
| List            | OEL (ZA) |     |        |
| Value           |          | 800 | ppm(V) |
| Status: 03/2021 |          |     |        |

##### n-butyl acetate

|                           |          |     |        |
|---------------------------|----------|-----|--------|
| List                      | OEL (ZA) |     |        |
| Value                     |          | 100 | ppm(V) |
| Short term exposure limit |          | 300 | ppm(V) |
| Status: 03/2021           |          |     |        |

##### ethanol

|                           |          |                   |  |
|---------------------------|----------|-------------------|--|
| List                      | OEL (ZA) |                   |  |
| Short term exposure limit | 2000     | mg/m <sup>3</sup> |  |
| Status: 03/2021           |          |                   |  |

#### 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 <sup>3</sup> |  |

|                      |                                |         |  |
|----------------------|--------------------------------|---------|--|
| 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 |  |

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|----------------------|--------------------------------|---------|
| 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        | 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/m <sup>3</sup> |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| 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/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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/m <sup>3</sup> |

**acetone**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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        | 1210                           | mg/m <sup>3</sup> |

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



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|----------------------|------------------|---------|
| Duration of exposure | Long-term        |         |
| Route of exposure    | Dermal exposure  |         |
| Mode of action       | Systemic effects |         |
| Concentration        | 186              | 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       | Local effects                  |                   |
| Concentration        | 2420                           | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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        | 1210                           | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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        | 62                             | mg/kg/d |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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        | 62                             | 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        | 200                            | mg/m <sup>3</sup> |

**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               |  |

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|----------------------|--------------------------------|-------------------|
| Concentration        | 734                            | mg/m <sup>3</sup> |
| 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        | 734                            | mg/m <sup>3</sup> |
| 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 <sup>3</sup> |
| 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 <sup>3</sup> |
| 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 <sup>3</sup> |
| 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 <sup>3</sup> |
| 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 <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |

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|                      |                  |         |
|----------------------|------------------|---------|
| Duration of exposure | Long-term        |         |
| Route of exposure    | Oral exposure    |         |
| Mode of action       | Systemic effects |         |
| 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/m³ |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| 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 |

**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                      |       |
| Route of exposure    | inhalative                     |       |
| Mode of action       | Systemic effects               |       |
| Concentration        | 300                            | mg/m³ |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| 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/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        | 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               |  |

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Concentration 35,7 mg/m<sup>3</sup>

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<sup>3</sup>

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<sup>3</sup>

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<sup>3</sup>

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<sup>3</sup>

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<sup>3</sup>

**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<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

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|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 600                            | mg/m <sup>3</sup> |
| 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 <sup>3</sup> |
| 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 <sup>3</sup> |
| 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        | 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 <sup>3</sup> |
| 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 <sup>3</sup> |
| 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               |                   |

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Concentration 35,7 mg/m<sup>3</sup>

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<sup>3</sup>

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

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

#### **ethanol**

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Local effects

Concentration 1900 mg/m<sup>3</sup>

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 343 mg/kg/d

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 960 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

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|----------------------|---------------|-------------------|
| Reference group      | Consumer      |                   |
| Duration of exposure | Short-term    |                   |
| Route of exposure    | inhalative    |                   |
| Mode of action       | Acute effects |                   |
| Concentration        | 960           | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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        | 206                            | 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        | 114                            | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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        | 87                             | mg/kg/d |

**toluene**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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        | 343                            | mg/m <sup>3</sup> |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| 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        | 384                            | 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       | Local effects                  |                   |
| Concentration        | 192                            | mg/m <sup>3</sup> |

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

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|------------------------------------|--------------------------------|-------------------|
| Mode of action                     | Systemic effects               |                   |
| Concentration                      | 192                            | mg/m <sup>3</sup> |
| 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                      | 384                            | 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                     | Local effects                  |                   |
| Concentration                      | 226                            | mg/m <sup>3</sup> |
| 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                      | 226                            | mg/m <sup>3</sup> |
| 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                      | 56,5                           | mg/m <sup>3</sup> |
| 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                      | 226                            | 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                      | 8,13                           | mg/kg/d           |
| <b>Hydrocarbons, C9, aromatics</b> |                                |                   |
| 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             |



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|                      |                                |       |
|----------------------|--------------------------------|-------|
| 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                |       |
| 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 |

**zinc powder — zinc dust (pyrophoric)**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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        | 5                              | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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        | 83                             | mg/kg/d |

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

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|-------------------|------------------|---------|
| Route of exposure | Oral exposure    |         |
| Mode of action    | Systemic effects |         |
| Concentration     | 0,83             | 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        | 2,5                            | mg/m <sup>3</sup> |

**aluminium powder (stabilised)**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 3,72                           | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 3,72                           | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| Type of value        | Derived No Effect Level (DNEL) |         |
| Reference group      | Consumer                       |         |
| Duration of exposure | Long term                      |         |
| Route of exposure    | oral                           |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 7,9                            | mg/kg/d |

**copper**

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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       | Systemic effects               |         |
| Concentration        | 273                            | mg/kg/d |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (industrial)           |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 20                             | mg/m <sup>3</sup> |

|                      |                                |  |
|----------------------|--------------------------------|--|
| 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               |  |

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|---------------|-----|---------|
| Concentration | 137 | 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 | Systemic effects |
|----------------|------------------|

|               |     |         |
|---------------|-----|---------|
| Concentration | 273 | 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 | 20 | mg/m³ |
|---------------|----|-------|

### 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 |
|---------------|-----|------|

#### acetone

|               |      |
|---------------|------|
| Type of value | PNEC |
|---------------|------|

|      |            |
|------|------------|
| Type | Freshwater |
|------|------------|

|               |      |      |
|---------------|------|------|
| Concentration | 10,6 | mg/l |
|---------------|------|------|

|               |      |
|---------------|------|
| Type of value | PNEC |
|---------------|------|



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|----------------------|------------------------------|-------|
| Type                 | Saltwater                    |       |
| Concentration        | 1,06                         | mg/l  |
| Type of value        | PNEC                         |       |
| Type                 | Fresh water sediment         |       |
| Concentration        | 30,4                         | mg/kg |
| Type of value        | PNEC                         |       |
| Type                 | saltwater sediment           |       |
| Concentration        | 3,04                         | mg/kg |
| Type of value        | PNEC                         |       |
| Type                 | Soil                         |       |
| Concentration        | 29,5                         | mg/kg |
| Type of value        | PNEC                         |       |
| Type                 | Sewage treatment plant (STP) |       |
| Concentration        | 100                          | mg/l  |
| Type of value        | PNEC                         |       |
| Conditions           | sporadic release             |       |
| Concentration        | 21                           | mg/l  |
| <b>ethyl acetate</b> |                              |       |
| 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) |       |
| 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  |

**isobutyl acetate**

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|                        |                              |       |
|------------------------|------------------------------|-------|
| 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           |       |
| Concentration          | 0,0877                       | mg/kg |
| Type of value          | PNEC                         |       |
| Type                   | Soil                         |       |
| Concentration          | 0,0755                       | mg/kg |
| <b>n-butyl acetate</b> |                              |       |
| 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           |       |

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|                |                              |       |
|----------------|------------------------------|-------|
| Concentration  | 0,0981                       | mg/l  |
| Type of value  | PNEC                         |       |
| Type           | Soil                         |       |
| Concentration  | 0,0903                       | mg/kg |
| <b>ethanol</b> |                              |       |
| Type of value  | PNEC                         |       |
| Type           | Freshwater                   |       |
| Concentration  | 0,96                         | mg/l  |
| Type of value  | PNEC                         |       |
| Type           | marine water                 |       |
| Concentration  | 0,79                         | mg/l  |
| Type of value  | PNEC                         |       |
| Conditions     | sporadic release             |       |
| Concentration  | 2,75                         | mg/l  |
| Type of value  | PNEC                         |       |
| Type           | Sewage treatment plant (STP) |       |
| Concentration  | 580                          | mg/l  |
| Type of value  | PNEC                         |       |
| Type           | Fresh water sediment         |       |
| Concentration  | 3,6                          | mg/kg |
| Type of value  | PNEC                         |       |
| Type           | saltwater sediment           |       |
| Concentration  | 2,9                          | mg/kg |
| Type of value  | PNEC                         |       |
| Type           | Soil                         |       |
| Concentration  | 0,63                         | mg/kg |
| <b>toluene</b> |                              |       |
| Type of value  | PNEC                         |       |
| Type           | Freshwater                   |       |
| Concentration  | 0,68                         | mg/l  |
| Type of value  | PNEC                         |       |
| Type           | Fresh water sediment         |       |
| Concentration  | 16,39                        | mg/kg |
| Type of value  | PNEC                         |       |
| Type           | Soil                         |       |
| Concentration  | 2,89                         | mg/kg |
| Type of value  | PNEC                         |       |
| Type           | Sewage treatment plant (STP) |       |
| Concentration  | 13,61                        | mg/l  |

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**zinc powder — zinc dust (pyrophoric)**

|               |                      |       |
|---------------|----------------------|-------|
| Type of value | PNEC                 |       |
| Type          | Freshwater           |       |
| Concentration | 0,0206               | mg/l  |
| Type of value | PNEC                 |       |
| Type          | Fresh water sediment |       |
| Concentration | 117,8                | mg/kg |
| Type of value | PNEC                 |       |
| Type          | marine water         |       |
| Concentration | 0,0061               | mg/l  |
| Type of value | PNEC                 |       |
| Type          | Soil                 |       |
| Concentration | 35,6                 | mg/kg |
| Type of value | PNEC                 |       |
| Type          | saltwater sediment   |       |
| Concentration | 56,5                 | mg/kg |

**aluminium powder (stabilised)**

|               |                              |      |
|---------------|------------------------------|------|
| Type of value | PNEC                         |      |
| Type          | Freshwater                   |      |
| Concentration | 0,0749                       | mg/l |
| Type of value | PNEC                         |      |
| Type          | Sewage treatment plant (STP) |      |
| Concentration | 20                           | mg/l |

**copper**

|               |                              |       |
|---------------|------------------------------|-------|
| Type of value | PNEC                         |       |
| Type          | Soil                         |       |
| Concentration | 65,5                         | mg/kg |
| Type of value | PNEC                         |       |
| Type          | Freshwater                   |       |
| Concentration | 0,0078                       | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Fresh water sediment         |       |
| Concentration | 87                           | mg/kg |
| Type of value | PNEC                         |       |
| Type          | marine water                 |       |
| Concentration | 0,0052                       | mg/kg |
| Type of value | PNEC                         |       |
| Type          | Sewage treatment plant (STP) |       |
| Concentration | 0,230                        | mg/l  |

**8.2. Exposure controls**

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### 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 55,8 to 217 °C

#### Flammability

not determined

#### Upper and lower explosive limits

Remarks not determined

#### Flash point

Value  $<$  21 °C

#### Auto-ignition temperature



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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. 1,034 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 36 to 44 s  
Temperature 20 °C  
Method DIN 53211 4 mm

#### Explosive properties

evaluation not determined

#### Oxidising properties

Remarks not determined

#### Non-volatile content

Value appr. 35 %  
Method calculated value

#### Other information

This information is not available.

### SECTION 10: Stability and reactivity

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### 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<sub>x</sub>), 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

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

#### Acute oral toxicity (Components)

##### zinc powder — zinc dust (pyrophoric)

|         |              |            |
|---------|--------------|------------|
| Species | rat          |            |
| LD50    | >            | 2000 mg/kg |
| Method  | Limited Test |            |

##### copper

|         |          |       |
|---------|----------|-------|
| Species | rat      |       |
| LD50    | 482      | mg/kg |
| Method  | OECD 401 |       |

#### Acute dermal toxicity

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

#### Acute inhalational toxicity

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

#### Acute inhalative toxicity (Components)

##### zinc powder — zinc dust (pyrophoric)

|                      |              |           |
|----------------------|--------------|-----------|
| Species              | rat          |           |
| LC50                 | >            | 5,41 mg/l |
| Duration of exposure | 4            | h         |
| Method               | Limited Test |           |
| Remarks              | Mist         |           |

#### Skin corrosion/irritation

|        |  |
|--------|--|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
|--------|--|

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

### Skin corrosion/irritation (Components)

#### toluene

|                      |                                  |   |  |
|----------------------|----------------------------------|---|--|
| Species              | rabbit                           |   |  |
| Duration of exposure | 4                                | h |  |
| Observation Period   | 7                                | d |  |
| evaluation           | Irritating to skin.              |   |  |
| Method               | EEC 84/449, B.4                  |   |  |
| Source               | 1 (reliable without restriction) |   |  |

#### zinc powder — zinc dust (pyrophoric)

evaluation No skin irritation

### 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)

#### acetone

|                    |                                  |   |  |
|--------------------|----------------------------------|---|--|
| Species            | rabbit                           |   |  |
| Observation Period | 24                               | h |  |
| evaluation         | Irritating to eyes.              |   |  |
| Source             | 1 (reliable without restriction) |   |  |

#### ethyl acetate

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

#### zinc powder — zinc dust (pyrophoric)

evaluation No eye irritation

#### copper

evaluation Irritating to eyes.

### Sensitization

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

### Sensitization (Components)

#### zinc powder — zinc dust (pyrophoric)

evaluation No sensitizing effects known.

### 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. |

### Reproduction toxicity (Components)

#### toluene

evaluation Reproductive toxicity, Category 2

### Carcinogenicity

|        |  |
|--------|--|
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
|--------|--|

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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

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

### Specific Target Organ Toxicity (STOT) (Components)

#### acetone

##### Specific target organ toxicity - repeated exposure

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

#### ethyl acetate

##### Specific target organ toxicity - single exposure

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

#### isobutyl acetate

##### Specific target organ toxicity - repeated 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).

#### toluene

##### Specific target organ toxicity - single exposure

Organs: Liver  
Remarks May cause damage to organs through prolonged or repeated exposure:

#### toluene

##### Specific target organ toxicity - repeated exposure

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

#### 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).

#### 2-methoxy-1-methylethyl acetate

##### Specific target organ toxicity - repeated exposure

evaluation May cause drowsiness or dizziness.  
Organs: Nervous system

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### 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

### 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 |      |

##### zinc powder — zinc dust (pyrophoric)

|                      |                |   |      |
|----------------------|----------------|---|------|
| Species              | Cottus bairdii |   |      |
| LC50                 | 0,439          |   | mg/l |
| Duration of exposure | 96             | h |      |

##### zinc powder — zinc dust (pyrophoric)

|                      |                     |   |      |
|----------------------|---------------------|---|------|
| Species              | Jordanella floridae |   |      |
| NOEC                 | 0,075               |   | mg/l |
| Duration of exposure | 30                  | d |      |

#### 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 |      |

##### zinc powder — zinc dust (pyrophoric)

|                      |                            |   |      |
|----------------------|----------------------------|---|------|
| Species              | Daphnia magna (Water flea) |   |      |
| EC50                 | 0,416                      |   | mg/l |
| Duration of exposure | 48                         | h |      |

##### zinc powder — zinc dust (pyrophoric)

|                      |                            |   |      |
|----------------------|----------------------------|---|------|
| Species              | Daphnia magna (Water flea) |   |      |
| NOEC                 | 0,025                      |   | mg/l |
| Duration of exposure | 7                          | d |      |

##### copper

|         |                            |  |      |
|---------|----------------------------|--|------|
| Species | Daphnia magna (Water flea) |  |      |
| NOEC    | 0,013                      |  | mg/l |

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Duration of exposure 63 h

#### **copper**

Species Daphnia magna (Water flea)

EC50 0,792 mg/l

Duration of exposure 48 h

#### **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**

#### **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.

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## 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

|                                  | 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                | 640C   |  |   |
| 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

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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) | 64 | % | 658 | g/l |
|----------|----|---|-----|-----|

#### 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.                                       |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                      |
| H315   | Causes skin irritation.  |
| H319   | Causes serious eye irritation.                                     |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H361d  | Suspected of damaging the unborn child.                            |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.              |
| H411   | Toxic to aquatic life with long lasting effects.                   |

#### CLP categories listed in Chapter 3

|                   |  |
|-------------------|--|
| Acute Tox. 4      | Acute toxicity, Category 4                                     |
| Aquatic Acute 1   | Hazardous to the aquatic environment, acute, Category 1        |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1      |
| 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                                   |
| Repr. 2           | Reproductive toxicity, Category 2                              |
| Skin Irrit. 2     | Skin irritation, Category 2                                    |
| STOT RE 2         | Specific target organ toxicity - repeated exposure, Category 2 |
| 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.



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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

### **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.

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### 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.

### 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 >= 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 (industrial)

|      |       |
|------|-------|
| SU   | SU3   |
| PROC | PROC7 |

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|                                   |  |
|-----------------------------------|--|
| Assessment method                 | inhalation, long-term - local and systemic |
| Exposure assessment               | 27,54 mg/m <sup>3</sup>                    |
| 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 |
| Exposure assessment               | 55,08 mg/m <sup>3</sup>                    |
| 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 <sup>3</sup>                    |
| 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                       |

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Exposure assessment 200 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,05  
Lead substance acetone

**Workers (industrial)**

SU SU3  
PROC PROC7  
Assessment method dermal, long-term - systemic  
Indoor use

Exposure assessment 62 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,01  
Lead substance acetone

**Workers (industrial)**

SU SU3  
PROC PROC10  
Assessment method inhalation, long-term - systemic  
Indoor use

Exposure assessment 200 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,5  
Lead substance acetone

**Workers (industrial)**

SU SU3  
PROC PROC10  
Assessment method dermal, long-term - systemic  
Indoor use

Exposure assessment 62 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,15  
Lead substance acetone

**Workers (industrial)**

SU SU3  
PROC PROC13  
Assessment method inhalation, long-term - systemic  
Indoor use

Exposure assessment 200 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,5  
Lead substance acetone

**Workers (industrial)**

SU SU3  
PROC PROC13  
Assessment method dermal, long-term - systemic  
Indoor use

Exposure assessment 61 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,074  
Lead substance acetone

**Workers (industrial)**

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

**Workers (industrial)**

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

**Workers (industrial)**

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

**Workers (industrial)**

SU  
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

SU3  
PROC7  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,034  
ethyl acetate

SU3  
PROC7  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,075  
ethyl acetate

SU3  
PROC10  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,011  
ethyl acetate

SU3  
PROC10  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,075  
ethyl acetate

PROC7  
inhalation, long-term - local and systemic  
Indoor use  
60,5 mg/m<sup>3</sup>  
ECETOC TRA  
0,126  
isobutyl acetate

PROC10  
inhalation, long-term - local and systemic  
Indoor use  
242 mg/m<sup>3</sup>  
ECETOC TRA  
0,504  
isobutyl acetate

PROC13  
inhalation, long-term - local and systemic

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|                                   |  |
|-----------------------------------|--|
| Exposure assessment               | Indoor use                                 |
| Exposure assessment (method)      | 242 mg/m <sup>3</sup>                      |
| Risk characterisation ratio (RCR) | ECETOC TRA                                 |
| Lead substance                    | 0,504                                      |
|                                   | isobutyl acetate                           |
| <b>Workers (industrial)</b>       |  |
| PROC                              | PROC7                                      |
| Assessment method                 | inhalation, long-term - local and systemic |
|                                   | Indoor use                                 |
| Exposure assessment               | 60,5 mg/m <sup>3</sup>                     |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,126                                      |
| Lead substance                    | n-butyl acetate                            |
| <b>Workers (industrial)</b>       |  |
| PROC                              | PROC10                                     |
| Assessment method                 | inhalation, long-term - systemic           |
|                                   | Indoor use                                 |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | n-butyl acetate                            |
| <b>Workers (industrial)</b>       |  |
| PROC                              | PROC10                                     |
| Assessment method                 | inhalation, long-term - systemic           |
|                                   | Outdoor use                                |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | n-butyl acetate                            |
| <b>Workers (industrial)</b>       |  |
| PROC                              | PROC13                                     |
| Assessment method                 | inhalation, long-term - systemic           |
|                                   | Indoor use                                 |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | n-butyl acetate                            |
| <b>Workers (industrial)</b>       |  |
| PROC                              | PROC13                                     |
| Assessment method                 | inhalation, long-term - systemic           |
|                                   | Outdoor use                                |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | n-butyl acetate                            |

## **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

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## 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

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  $\geq$  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 (professional)

|                              |  |
|------------------------------|--|
| SU                           | SU22                                       |
| PROC                         | PROC13                                     |
| Assessment method            | inhalation, long-term - local and systemic |
| Exposure assessment          | 55,08 mg/m <sup>3</sup>                    |
| Exposure assessment (method) | ECETOC TRA                                 |



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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

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

inhalation, long-term - local and systemic

Exposure assessment

137,71 mg/m<sup>3</sup>

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

Exposure assessment

27,54 mg/m<sup>3</sup>

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

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

Exposure assessment

55,08 mg/m<sup>3</sup>

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

ECETOC TRA  
0,2  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC11  
dermal, long-term - local and systemic  
Outdoor use

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

107,14 mg/kg/d  
ECETOC TRA  
0,7  
2-methoxy-1-methylethyl acetate  
SU21  
dermal, long-term - systemic  
Indoor use

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

6 mg/kg/d  
ConsExpo v4.1  
0,11  
2-methoxy-1-methylethyl acetate  
SU21  
inhalation, long-term - systemic  
Indoor use

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

6,83 mg/m<sup>3</sup>  
ConsExpo v4.1  
0,6  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

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

SU22  
PROC10  
inhalation, long-term - systemic  
200 mg/m<sup>3</sup>  
ECETOC TRA  
0,6  
acetone

**Workers (professional)**

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

SU22  
PROC10  
dermal, long-term - systemic  
62 mg/kg/d  
ECETOC TRA  
0,15  
acetone

**Workers (professional)**

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

SU22  
PROC11  
inhalation, long-term - systemic  
200 mg/m<sup>3</sup>  
ECETOC TRA  
0,4  
acetone

**Workers (professional)**

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

SU22  
PROC11  
dermal, long-term - systemic  
62 mg/kg/d  
ECETOC TRA  
0,01  
acetone

**Workers (professional)**

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

SU22  
PROC13  
inhalation, long-term - systemic  
200 mg/m<sup>3</sup>  
ECETOC TRA  
0,5  
acetone

**Workers (professional)**

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

SU22  
PROC13  
dermal, long-term - systemic  
62 mg/kg/d  
ECETOC TRA  
0,07  
acetone

**Workers (professional)**

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

SU22  
PROC10  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,022  
ethyl acetate

**Workers (professional)**

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

SU22  
PROC10  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,018  
ethyl acetate

**Workers (professional)**

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

SU22  
PROC11  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,034  
ethyl acetate

**Workers (professional)**

SU  
PROC

SU22  
PROC11

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|                                   |  |
|-----------------------------------|--|
| Assessment method                 | inhalation, long-term - local              |
| Exposure assessment               | 734 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,018                                      |
| Lead substance                    | ethyl acetate                              |
| <b>Workers (professional)</b>     |  |
| SU                                | SU22                                       |
| PROC                              | PROC11                                     |
| Assessment method                 | inhalation, long-term - local and systemic |
|                                   | Indoor use                                 |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | isobutyl acetate                           |
| <b>Workers (professional)</b>     |  |
| SU                                | SU22                                       |
| PROC                              | PROC11                                     |
| Assessment method                 | inhalation, long-term - local and systemic |
|                                   | Outdoor use                                |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | isobutyl acetate                           |
| <b>Workers (professional)</b>     |  |
| SU                                | SU22                                       |
| PROC                              | PROC11                                     |
| Assessment method                 | Long-term                                  |
|                                   | inhalative                                 |
| Exposure assessment               | 242 mg/m <sup>3</sup>                      |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,504                                      |
| Lead substance                    | n-butyl acetate                            |

## **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.