

Trade name: Hesse PU Spatter effect PEX DB 4293X-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

### 1.1. Product identifier

Hesse PU Spatter effect PEX DB 4293X-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 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  |
|        | REACHSET 2003  |
| 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                          |
| PROC10 | Roller application or brushing   |

### 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  
Testphrase

## 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

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.

### Precautionary statements

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

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

contains n-butyl acetate; 2-methoxy-1-methylethyl acetate; isobutyl acetate; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EUH208 Contains 12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide, 4-morpholinecarbaldehyde, May produce an allergic reaction.

### Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

### Further supplemental information

Young persons under 18 years may not work with this product.

## 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 |   |                |

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

CAS No. 108-65-6  
EINECS no. 203-603-9  
Registration no. 01-2119475791-29  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 3 H226  
STOT SE 3 H336

#### isobutyl acetate

CAS No. 110-19-0  
EINECS no. 203-745-1  
Registration no. 01-2119488971-22  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225  
STOT SE 3 H336 Nervous system  
EUH066

#### Hydrocarbons, C9, aromatics

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

#### xylene

CAS No. 1330-20-7  
EINECS no. 215-535-7  
Registration no. 01-2119488216-32  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 3 H226  
Acute Tox. 4 H332 Route of exposure: Inhalation exposure  
Acute Tox. 4 H312 Route of exposure: Dermal exposure  
Skin Irrit. 2 H315  
Asp. Tox. 1 H304  
STOT SE 3 H335 Respiratory tract; Route of exposure: inhalative  
Eye Irrit. 2 H319

ATE Dermal exposure 2.000 mg/kg  
ATE Inhalation exposure, Dust/Mist 5 mg/l

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

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|  |                  |        |                |
|--|------------------|--------|----------------|
| CAS No.  | 64742-48-9       |        |                |
| EINECS no.                                     | 919-857-5        |        |                |
| Registration no.                               | 01-2119463258-33 |        |                |
| Concentration                                  | >= 1             | < 10   | %              |
| Classification (Regulation (EC) No. 1272/2008) |                  |        |                |
|  | Flam. Liq. 3     | H226   |                |
|  | Asp. Tox. 1      | H304   |                |
|  | STOT SE 3        | H336   | Nervous system |
|  |                  | EUH066 |                |

#### 4-morpholinecarbaldehyde

|  |                  |      |   |
|--|------------------|------|---|
| CAS No.  | 4394-85-8        |      |   |
| EINECS no.                                     | 224-518-3        |      |   |
| Registration no.                               | 01-2119987993-12 |      |   |
| Concentration                                  | >= 0,1           | < 1  | % |
| Classification (Regulation (EC) No. 1272/2008) |                  |      |   |
|  | Skin Sens. 1B    | H317 |   |

#### 12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide

|  |                   |      |   |
|--|-------------------|------|---|
| EINECS no.                                     | 434-430-9         |      |   |
| Registration no.                               | 01-0000018057-71  |      |   |
| Concentration                                  | >= 0,1            | < 1  | % |
| Classification (Regulation (EC) No. 1272/2008) |                   |      |   |
|  | Skin Sens. 1      | H317 |   |
|  | Aquatic Chronic 4 | H413 |   |

#### cellulose nitrate < =12.6 % N

|  |           |      |  |
|--|-----------|------|--|
| CAS No.  | 9004-70-0 |      |  |
| Classification (Regulation (EC) No. 1272/2008) |           |      |  |
|  | Expl. 1.1 | H201 |  |

#### Note

For explanation of abbreviations see section 16.

## 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.

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### **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.

#### **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**

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## 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

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.

## 7.3. Specific end use(s)

See exposure scenario, if available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

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

|   |         |                   |    |        |
|---|---------|-------------------|----|--------|
| List  | GV (DK) |                   |    |        |
| Value   | 275     | mg/m <sup>3</sup> | 50 | ppm(V) |
| Skin resorption / sensitisation: H; Status: 11/2021 |         |                   |    |        |

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

|                           |                       |                   |     |        |
|---------------------------|-----------------------|-------------------|-----|--------|
| List                      | Directive 2017/164 EG |                   |     |        |
| Value                     | 275                   | mg/m <sup>3</sup> | 50  | ppm(V) |
| Short term exposure limit | 550                   | mg/m <sup>3</sup> | 100 | ppm(V) |
| Status: 12/2009           |                       |                   |     |        |

##### n-butyl acetate

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|         |         |                   |    |        |
|---------|---------|-------------------|----|--------|
| List    | GV (DK) |                   |    |        |
| Value   | 241     | mg/m <sup>3</sup> | 50 | ppm(V) |
| Status: | 11/2021 |                   |    |        |

**n-butyl acetate**

|                           |                       |                   |     |        |
|---------------------------|-----------------------|-------------------|-----|--------|
| List                      | Directive 2017/164 EG |                   |     |        |
| Value                     | 241                   | mg/m <sup>3</sup> | 50  | ppm(V) |
| Short term exposure limit | 723                   | mg/m <sup>3</sup> | 150 | ppm(V) |
| Status:                   | 10/2019               |                   |     |        |

**xylene**

|   |         |                   |    |        |
|---|---------|-------------------|----|--------|
| List  | GV (DK) |                   |    |        |
| Value   | 109     | mg/m <sup>3</sup> | 25 | ppm(V) |
| Skin resorption / sensibilisation: H; Status: 11/2021 |         |                   |    |        |

**xylene**

|   |                       |                   |     |        |
|---|-----------------------|-------------------|-----|--------|
| List  | Directive 2017/164 EG |                   |     |        |
| Value   | 221                   | mg/m <sup>3</sup> | 50  | ppm(V) |
| Short term exposure limit                             | 442                   | mg/m <sup>3</sup> | 100 | ppm(V) |
| Skin resorption / sensibilisation: H; Status: 12/2009 |                       |                   |     |        |

**isobutyl acetate**

|         |         |                   |    |        |
|---------|---------|-------------------|----|--------|
| List    | GV (DK) |                   |    |        |
| Value   | 241     | mg/m <sup>3</sup> | 50 | ppm(V) |
| Status: | 11/2021 |                   |    |        |

**isobutyl acetate**

|                           |                       |                   |     |        |
|---------------------------|-----------------------|-------------------|-----|--------|
| List                      | Directive 2017/164 EG |                   |     |        |
| Value                     | 241                   | mg/m <sup>3</sup> | 50  | ppm(V) |
| Short term exposure limit | 723                   | mg/m <sup>3</sup> | 150 | ppm(V) |
| Status:                   | 10/2019               |                   |     |        |

**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 |

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



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

**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) |                   |
| 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                       |  |



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

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

#### **xylene**

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

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

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 65,3                           | mg/m <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        | 260                            | 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        | 174                            | 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        | 442                            | 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    | inhalative       |                   |
| Mode of action       | Systemic effects |                   |
| Concentration        | 221              | 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        | 289                            | 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        | 289                            | 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        | 12,5                           | mg/kg/d |

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

**Hydrocarbons, C9, aromatics**

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

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

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

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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

#### 4-morpholinecarbaldehyde

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 Local effects

Concentration 0,293 mg/cm<sup>2</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 98 g/cm<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 8 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 29 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 8 mg/kg

**isobutyl acetate**



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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        | 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/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      | Consumer                       |         |
| Duration of exposure | Long-term                      |         |
| Route of exposure    | Dermal exposure                |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 5                              | mg/kg/d |

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

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|                |               |                   |
|----------------|---------------|-------------------|
| 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> |

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

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

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Workers (professional)         |       |
| Duration of exposure | Long-term                      |       |
| Route of exposure    | Dermal exposure                |       |
| Concentration        | 208                            | mg/kg |

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

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Workers (professional)         |       |
| Duration of exposure | Long-term                      |       |
| Route of exposure    | inhalative                     |       |
| Concentration        | 871                            | mg/kg |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Consumer                       |       |
| Duration of exposure | Long-term                      |       |
| Route of exposure    | inhalative                     |       |
| Concentration        | 185                            | mg/kg |

**Predicted No Effect Concentration (PNEC)**

**2-methoxy-1-methylethyl acetate**

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



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|                        |                              |       |
|------------------------|------------------------------|-------|
| 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  |
| <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           |       |
| Concentration          | 0,0981                       | mg/l  |
| Type of value          | PNEC                         |       |





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|               |      |        |       |
|---------------|------|--------|-------|
| Type          | Soil |        |       |
| Concentration |      | 0,0903 | mg/kg |

**xylene**

|               |            |       |      |
|---------------|------------|-------|------|
| Type of value | PNEC       |       |      |
| Type          | Freshwater |       |      |
| Concentration |            | 0,327 | mg/l |

|               |           |       |      |
|---------------|-----------|-------|------|
| Type of value | PNEC      |       |      |
| Type          | Saltwater |       |      |
| Concentration |           | 0,327 | mg/l |

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

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

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

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

**4-morpholinecarbaldehyde**

|               |            |     |      |
|---------------|------------|-----|------|
| Type of value | PNEC       |     |      |
| Type          | Freshwater |     |      |
| Concentration |            | 0,5 | mg/l |

|               |              |      |      |
|---------------|--------------|------|------|
| Type of value | PNEC         |      |      |
| Type          | marine water |      |      |
| Concentration |              | 0,05 | mg/l |

|               |                              |      |      |
|---------------|------------------------------|------|------|
| Type of value | PNEC                         |      |      |
| Type          | Sewage treatment plant (STP) |      |      |
| Concentration |                              | 2000 | mg/l |

|               |                      |      |       |
|---------------|----------------------|------|-------|
| Type of value | PNEC                 |      |       |
| Type          | Fresh water sediment |      |       |
| Concentration |                      | 1,85 | mg/kg |

|               |                    |        |       |
|---------------|--------------------|--------|-------|
| Type of value | PNEC               |        |       |
| Type          | saltwater sediment |        |       |
| Concentration |                    | 0,0764 | mg/kg |

**isobutyl acetate**

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

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

## 8.2. Exposure controls

### Exposure controls

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

### Respiratory protection

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

### Hand protection

Protective gloves complying with EN 374.

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.

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

### Eye protection

Wear eye glasses with side protection according to EN 166.

### 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

|   |                  |
|---|------------------|
| <b>Physical state</b>   | liquid           |
| <b>Colour</b>   | coloured         |
| <b>Odour</b>  | solvent-like     |
| <b>Melting point</b>  |                  |
| Remarks   | not determined   |
| <b>Freezing point</b>   |                  |
| Remarks   | not determined   |
| <b>Boiling point or initial boiling point and boiling range</b> |                  |
| Value   | 82 to 200 °C     |
| <b>Flammability</b>   |                  |
| not determined  |                  |
| <b>Upper and lower explosive limits</b>                         |                  |
| Remarks   | not determined   |
| <b>Flash point</b>  |                  |
| Value   | < 21 °C          |
| <b>Ignition temperature</b>                                     |                  |
| Remarks   | not determined   |
| <b>Decomposition temperature</b>                                |                  |
| Remarks   | not determined   |
| <b>Viscosity</b>  |                  |
| Remarks   | not determined   |
| <b>Solubility(ies)</b>  |                  |
| Remarks   | not determined   |
| <b>Partition coefficient n-octanol/water (log value)</b>        |                  |
| Remarks   | not determined   |
| <b>Vapour pressure</b>  |                  |
| Remarks   | not determined   |
| <b>Density and/or relative density</b>                          |                  |
| Value   | appr. 1,017 kg/l |
| Temperature   | 20 °C            |
| <b>Relative vapour density</b>                                  |                  |
| Remarks   | not determined   |
| <b>Particle characteristics</b>                                 |                  |

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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 49 to 61 s  
Temperature 20 °C  
Method DIN 53211 4 mm

### Explosive properties

evaluation not determined

### Oxidising properties

Remarks not determined

### Non-volatile content

Value 36 %

### Other information

This information is not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO<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

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

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### Acute dermal toxicity

|         |   |        |       |
|---------|---|--------|-------|
| ATE     | >   | 10.000 | mg/kg |
| Method  | calculated value (Regulation (EC) No. 1272/2008)                  |        |       |
| Remarks | Based on available data, the classification criteria are not met. |        |       |

### Acute dermal toxicity (Components)

#### xylene

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

### Acute inhalational toxicity

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

### Acute inhalative toxicity (Components)

#### xylene

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

### Skin corrosion/irritation

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

### Skin corrosion/irritation (Components)

#### xylene

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

### 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)

#### xylene

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

### Sensitization

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

### Sensitization (Components)

#### 12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide

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

#### 4-morpholinecarbaldehyde

|         |       |
|---------|-------|
| Species | mouse |
|---------|-------|

### Mutagenicity

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

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

### Reproductive toxicity

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

### Carcinogenicity

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

### Specific Target Organ Toxicity (STOT)

#### Single exposure

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

#### Repeated exposure

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

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

#### n-butyl acetate

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

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

#### xylene

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

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

#### Hydrocarbons, C9, aromatics

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

Remarks Route of exposure inhalative  
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

#### isobutyl acetate

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

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

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

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

### Aspiration hazard

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

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## 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 |      |

#### 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 |      |

##### 4-morpholinecarbaldehyde

|                      |                            |   |      |
|----------------------|----------------------------|---|------|
| Species              | Daphnia magna (Water flea) |   |      |
| EC50                 | > 500                      |   | mg/l |
| Duration of exposure | 48                         | h |      |

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

|                      |                            |    |      |
|----------------------|----------------------------|----|------|
| Species              | Daphnia magna (Water flea) |    |      |
| EC50                 | 22                         | 46 | mg/l |
| Duration of exposure | 48                         | h  |      |
| Method               | OECD 202, part 1, static   |    |      |

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

|                      |                            |   |      |
|----------------------|----------------------------|---|------|
| Species              | Daphnia magna (Water flea) |   |      |
| NOELR                | 0,23                       |   | mg/l |
| Duration of exposure | 21                         | d |      |
| Method               | QSAR modelled data         |   |      |

#### 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



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### General information

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

### Biodegradability (Components)

#### Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

#### 4-morpholinecarbaldehyde

Value 100 %  
Remarks Readily biodegradable.

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Value 53,4 %  
Duration of test 28 d  
evaluation Not 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.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

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EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances  
EWC waste code 200127 - paint, inks, adhesives and resins containing dangerous substances

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

**modified product**

EWC waste code 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances  
EWC waste code 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

**Dried residues**




EWC waste code 080112 - waste lacquers and waste paint except those falling under 080111

**Disposal recommendations for packaging**

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances

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   |  |   |
| <b>14.1. UN number</b>                  | 1263  | 1263   | 1263  |
| <b>14.2. UN proper shipping name</b>    | PAINT   | PAINT  | PAINT   |
| <b>14.3. Transport hazard class(es)</b> | 3   | 3  | 3   |
| Label                                   |  |  |  |
| <b>14.4. Packing group</b>              | II  | II   | II  |
| Special provision                       | 640D  |  |   |
| Limited Quantity                        | 5 l   |  |   |
| Transport category                      | 2   |  |   |
| <b>14.5. Environmental hazards</b>      |   | no   |   |

**SECTION 15: Regulatory information**

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

### VOC

VOC (EU) appr. 63 % 644 g/l

### MAL-Code

MAL-Code 3-1  
MAL 1.056,78 m³/l

## 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.   |
| H201   | Explosive; mass explosion hazard.                       |
| H225   | Highly flammable liquid and vapour.                     |
| H226   | Flammable liquid and vapour.                            |
| H304   | May be fatal if swallowed and enters airways.           |
| H312   | Harmful in contact with skin.                           |
| H315   | Causes skin irritation.                                 |
| H317   | May cause an allergic skin reaction.                    |
| H319   | Causes serious eye irritation.                          |
| H332   | Harmful if inhaled.                                     |
| H335   | May cause respiratory irritation.                       |
| H336   | May cause drowsiness or dizziness.                      |
| H411   | Toxic to aquatic life with long lasting effects.        |
| H413   | May cause long lasting harmful effects to aquatic life. |

### CLP categories listed in Chapter 3

|                   |  |
|-------------------|--|
| Acute Tox. 4      | Acute toxicity, Category 4                                   |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2    |
| Aquatic Chronic 4 | Hazardous to the aquatic environment, chronic, Category 4    |
| Asp. Tox. 1       | Aspiration hazard, Category 1                                |
| Expl. 1.1         | Explosive, Division 1.1                                      |
| Eye Irrit. 2      | Eye irritation, Category 2                                   |
| Flam. Liq. 2      | Flammable liquid, Category 2                                 |
| Flam. Liq. 3      | Flammable liquid, Category 3                                 |
| Skin Irrit. 2     | Skin irritation, Category 2                                  |
| Skin Sens. 1      | Skin sensitization, Category 1                               |
| Skin Sens. 1B     | Skin sensitization, Category 1B                              |
| STOT SE 3         | Specific target organ toxicity - single exposure, Category 3 |

### Abbreviations

Flam. Liq - Flammable liquids  
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG - International Maritime Code for Dangerous Goods  
IATA - International Air Transport Association  
IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

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

GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

NOAEL - No Observed Adverse Effect Level

NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Economic Cooperation and Development

VOC - Volatile Organic Compounds

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

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

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

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

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

## **Annex to the extended Safety Data Sheet (eSDS)**

### **Short title of the exposure scenario**

ES003 - Professional uses: Non industrial spraying (inside)

### **Use of the substance/preparation**

Surface treatment of wood and other materials

### **Use**

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

## **Contributing exposure scenario controlling environmental exposure**

### **Use**

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

### **Physical form**

liquid

### **Maximum amount used per time or activity**

Emission days per site: <= 250

### **Other relevant operational conditions**

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter soil, waterways or waste water canal.

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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**

|                |  |
|----------------|--|
| EWC waste code | 080111 - waste paint and varnish containing organic solvents or other dangerous substances |
|                | 200127 - paint, inks, adhesives and resins containing dangerous substances                 |

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

#### **modified product**

|                |  |
|----------------|--|
| EWC waste code | 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances               |
|                | 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances |

#### **Dried residues**

|                |   |
|----------------|---|
| EWC waste code | 080112 - waste lacquers and waste paint except those falling under 080111 |
|----------------|---|

#### **Disposal recommendations for packaging**

|                |   |
|----------------|---|
| EWC waste code | 150110 - packaging containing residues of or contaminated by dangerous substances |
|----------------|---|

Completely emptied packagings can be given for recycling.

### **Contributing exposure scenario controlling worker exposure (professional)**

#### **Short title of the exposure scenario**

Substance number:CES006

#### **Use**

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

#### **Physical form**

liquid

#### **Maximum amount used per time or activity**

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

#### **Other relevant operational conditions**

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

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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**

Protective gloves complying with EN 374.

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.

### **Eye protection**

Wear eye glasses with side protection according to EN 166.

### **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                                 |
| 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 |

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|                                   |  |
|-----------------------------------|--|
| 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<br>Indoor use |
| 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<br>Indoor use |
| Exposure assessment               | 2,14 mg/kg/d   |
| Exposure assessment (method)      | ECETOC TRA   |
| Risk characterisation ratio (RCR) | 0,01   |
| Lead substance                    | 2-methoxy-1-methylethyl acetate                      |

**Workers (professional)**

|                                   |   |
|-----------------------------------|---|
| SU                                | SU22  |
| PROC                              | PROC11  |
| Assessment method                 | inhalation, long-term - local and systemic<br>Outdoor use |
| 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 (professional)**

|                                   |   |
|-----------------------------------|---|
| SU                                | SU22  |
| PROC                              | PROC11  |
| Assessment method                 | dermal, long-term - local and systemic<br>Outdoor use |
| Exposure assessment               | 107,14 mg/kg/d  |
| Exposure assessment (method)      | ECETOC TRA  |
| Risk characterisation ratio (RCR) | 0,7   |
| Lead substance                    | 2-methoxy-1-methylethyl acetate                       |
| SU                                | SU21  |
| Assessment method                 | dermal, long-term - systemic                          |



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

**Workers (professional)**

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

**Workers (professional)**

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

**Workers (professional)**

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

**Workers (professional)**

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

**Workers (professional)**

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

**Workers (professional)**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| SU                                | SU22                             |
| PROC                              | PROC13                           |
| Assessment method                 | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,75                             |

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Lead substance

4-methylpentan-2-one

**Workers (professional)**

SU

SU22

PROC

PROC13

Assessment method

dermal, long-term - systemic

Risk characterisation ratio (RCR)

0,5

Lead substance

4-methylpentan-2-one

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,6

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,15

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,4

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,01

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,5

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC13

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|                                   |                              |
|-----------------------------------|------------------------------|
| Assessment method                 | dermal, long-term - systemic |
| Exposure assessment               | 62 mg/kg/d                   |
| Exposure assessment (method)      | ECETOC TRA                   |
| Risk characterisation ratio (RCR) | 0,07                         |
| Lead substance                    | acetone                      |

**Workers (professional)**

|                                   |                        |
|-----------------------------------|------------------------|
| SU                                | SU22                   |
| PROC                              | PROC10                 |
| Assessment method                 | inhalative             |
|                                   | Indoor use             |
| Exposure assessment               | 0,05 mg/m <sup>3</sup> |
| Exposure assessment (method)      | ECETOC TRA             |
| Risk characterisation ratio (RCR) | 0,172                  |
| Lead substance                    | xylene                 |

**Workers (professional)**

|                                   |                       |
|-----------------------------------|-----------------------|
| SU                                | SU22                  |
| PROC                              | PROC11                |
| Assessment method                 | inhalative            |
|                                   | Indoor use            |
| Exposure assessment               | 0,1 mg/m <sup>3</sup> |
| Exposure assessment (method)      | ECETOC TRA            |
| Risk characterisation ratio (RCR) | 0,34                  |
| Lead substance                    | xylene                |

**Workers (professional)**

|                                   |                        |
|-----------------------------------|------------------------|
| SU                                | SU22                   |
| PROC                              | PROC13                 |
| Assessment method                 | inhalative             |
|                                   | Indoor use             |
| Exposure assessment               | 0,05 mg/m <sup>3</sup> |
| Exposure assessment (method)      | ECETOC TRA             |
| Risk characterisation ratio (RCR) | 0,172                  |
| Lead substance                    | xylene                 |

## **Information on estimated exposure and downstream-user guidance**

### **Guidance for Downstream Users**

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

## **Annex to the extended Safety Data Sheet (eSDS)**

### **Short title of the exposure scenario**

ES004 - Professional uses: roller application or brushing, dipping and pouring and other processing without aerosol formation (inside)

### **Use of the substance/preparation**

Surface treatment of wood and other materials

### **Use**

|       |  |
|-------|--|
| SU22  | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| ERC8a | Wide dispersive indoor use of processing aids in open systems                                    |

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|         |   |
|---------|---|
| ERC8c   | Wide dispersive indoor use resulting in inclusion into or onto a matrix |
| PROC10  | Roller application or brushing  |
| PROC13  | Treatment of articles by dipping and pouring                            |
| PROCh01 | Other processing without aerosol formation                              |

## **Contributing exposure scenario controlling environmental exposure**

### **Use**

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

### **Physical form**

liquid

### **Maximum amount used per time or activity**

Emission days per site: <= 250

### **Other relevant operational conditions**

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

### **Waste water**

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

### **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**

|                |  |
|----------------|--|
| EWC waste code | 080111 - waste paint and varnish containing organic solvents or other dangerous substances |
|                | 200127 - paint, inks, adhesives and resins containing dangerous substances                 |

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

### **modified product**

|                |  |
|----------------|--|
| EWC waste code | 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances               |
|                | 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances |

### **Dried residues**

|                |   |
|----------------|---|
| EWC waste code | 080112 - waste lacquers and waste paint except those falling under 080111 |
|----------------|---|

### **Disposal recommendations for packaging**

|                |   |
|----------------|---|
| EWC waste code | 150110 - packaging containing residues of or contaminated by dangerous substances |
|----------------|---|

Completely emptied packagings can be given for recycling.

## **Contributing exposure scenario controlling worker exposure (professional)**

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### Short title of the exposure scenario

Substance number:CES008

### Use

|         |  |
|---------|--|
| SU22    | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| PROC10  | Roller application or brushing   |
| PROC13  | Treatment of articles by dipping and pouring   |
| PROCh01 | Other processing without aerosol formation   |

### 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

Protective gloves complying with EN 374.

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.

### Eye protection

Wear eye glasses with side protection according to EN 166.

### Body protection

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

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## 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                                 |
| 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<br>Indoor use |
| 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<br>Indoor use |
| Exposure assessment               | 2,14 mg/kg/d   |
| Exposure assessment (method)      | ECETOC TRA   |
| Risk characterisation ratio (RCR) | 0,01   |

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Lead substance

2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - local and systemic

Exposure assessment

Outdoor use

Exposure assessment (method)

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

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,2

2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - local and systemic

Exposure assessment

Outdoor use

Exposure assessment (method)

107,14 mg/kg/d

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,7

2-methoxy-1-methylethyl acetate

SU

SU21

Assessment method

dermal, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

6 mg/kg/d

Risk characterisation ratio (RCR)

ConsExpo v4.1

Lead substance

0,11

2-methoxy-1-methylethyl acetate

SU

SU21

Assessment method

inhalation, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

6,83 mg/m<sup>3</sup>

Risk characterisation ratio (RCR)

ConsExpo v4.1

Lead substance

0,6

2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

Long-term

Exposure assessment

inhalative

Exposure assessment (method)

242 mg/m<sup>3</sup>

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,504

n-butyl acetate

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Risk characterisation ratio (RCR)

0,5

Lead substance

4-methylpentan-2-one

**Workers (professional)**

SU

SU22

PROC

PROC10



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|                                   |                                  |
|-----------------------------------|----------------------------------|
| Assessment method                 | dermal, long-term - systemic     |
| Risk characterisation ratio (RCR) | 0,1                              |
| Lead substance                    | 4-methylpentan-2-one             |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC11                           |
| Assessment method                 | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5                              |
| Lead substance                    | 4-methylpentan-2-one             |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC11                           |
| Assessment method                 | dermal, long-term - systemic     |
| Risk characterisation ratio (RCR) | 0,5                              |
| Lead substance                    | 4-methylpentan-2-one             |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC13                           |
| Assessment method                 | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,75                             |
| Lead substance                    | 4-methylpentan-2-one             |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC13                           |
| Assessment method                 | dermal, long-term - systemic     |
| Risk characterisation ratio (RCR) | 0,5                              |
| Lead substance                    | 4-methylpentan-2-one             |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC10                           |
| Assessment method                 | inhalation, long-term - systemic |
| Exposure assessment               | 200 mg/m <sup>3</sup>            |
| Exposure assessment (method)      | ECETOC TRA                       |
| Risk characterisation ratio (RCR) | 0,6                              |
| Lead substance                    | acetone                          |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC10                           |
| Assessment method                 | dermal, long-term - systemic     |
| Exposure assessment               | 62 mg/kg/d                       |
| Exposure assessment (method)      | ECETOC TRA                       |
| Risk characterisation ratio (RCR) | 0,15                             |
| Lead substance                    | acetone                          |
| <b>Workers (professional)</b>     |                                  |
| SU                                | SU22                             |
| PROC                              | PROC11                           |
| Assessment method                 | inhalation, long-term - systemic |
| Exposure assessment               | 200 mg/m <sup>3</sup>            |
| Exposure assessment (method)      | ECETOC TRA                       |
| Risk characterisation ratio (RCR) | 0,4                              |

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Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,01

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,5

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC13

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,07

Lead substance

acetone

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

inhalative

Exposure assessment

0,05 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,172

Lead substance

xylene

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalative

Exposure assessment

0,1 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,34

Lead substance

xylene

**Workers (professional)**

SU

SU22

PROC

PROC13

Assessment method

inhalative

Exposure assessment

0,05 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA



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|                                   |        |
|-----------------------------------|--------|
| Risk characterisation ratio (RCR) | 0,172  |
| Lead substance                    | xylene |

## **Information on estimated exposure and downstream-user guidance**

### **Guidance for Downstream Users**

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