

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

### 1.1. Product identifier

Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

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

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

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

### 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

|                   |      |
|-------------------|------|
| Flam. Liq. 2      | H225 |
| STOT SE 3         | H336 |
| Aquatic Chronic 3 | H412 |

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

### 2.2. Label elements

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

## Labelling according to regulation (EC) No 1272/2008

### Hazard pictograms



### Signal word

Danger

### Hazard statements

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.                |
| H336 | May cause drowsiness or dizziness.                 |
| H412 | Harmful to aquatic life with long lasting effects. |

### Precautionary statements

|           |  |
|-----------|--|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261      | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P273      | Avoid release to the environment.  |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                     |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                     |
| P308+P313 | IF exposed or concerned: Get medical advice/ attention.  |

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

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

### Supplemental information

|        |   |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

## 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

#### n-butyl acetate

|  |                  |        |   |                |
|--|------------------|--------|---|----------------|
| CAS No.  | 123-86-4         |        |   |                |
| EINECS no.                                     | 204-658-1        |        |   |                |
| Registration no.                               | 01-2119485493-29 |        |   |                |
| Concentration                                  | >= 25            | < 50   | % |                |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 3     | H226   |   |                |
|  | STOT SE 3        | H336   |   | Nervous system |
|  |                  | EUH066 |   |                |

#### Hydrocarbons, C9, aromatics

|                  |                  |
|------------------|------------------|
| CAS No.          | 128601-23-0      |
| EINECS no.       | 918-668-5        |
| Registration no. | 01-2119455851-35 |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|  |    |   |        |    |                   |
|--|----|---|--------|----|-------------------|
| Concentration                                  | >= | 3 | <      | 10 | %                 |
| Classification (Regulation (EC) No. 1272/2008) |    |   |        |    |                   |
| Flam. Liq. 3                                   |    |   | H226   |    |                   |
| Asp. Tox. 1                                    |    |   | H304   |    |                   |
| Aquatic Chronic 2                              |    |   | H411   |    |                   |
| STOT SE 3                                      |    |   | H335   |    | Respiratory tract |
| STOT SE 3                                      |    |   | H336   |    | Nervous system    |
|  |    |   | EUH066 |    |                   |

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

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

**ethyl acetate**

|  |                  |                |
|--|------------------|----------------|
| CAS No.  | 141-78-6         |                |
| EINECS no.                                     | 205-500-4        |                |
| Registration no.                               | 01-2119475103-46 |                |
| Concentration                                  | >= 1             |                |
| Classification (Regulation (EC) No. 1272/2008) | < 5 %            |                |
| Flam. Liq. 2                                   | H225             |                |
| Eye Irrit. 2                                   | H319             |                |
| STOT SE 3                                      | H336             |                |
|  | EUH066           |                |
|  |                  | Nervous system |

**isobutyl acetate**

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

**acetone**

|  |                  |                |
|--|------------------|----------------|
| CAS No.  | 67-64-1          |                |
| EINECS no.                                     | 200-662-2        |                |
| Registration no.                               | 01-2119471330-49 |                |
| Concentration                                  | >= 1             |                |
| Classification (Regulation (EC) No. 1272/2008) | < 4 %            |                |
| Flam. Liq. 2                                   | H225             |                |
| Eye Irrit. 2                                   | H319             |                |
| STOT SE 3                                      | H336             |                |
|  | EUH066           |                |
|  |                  | Nervous system |

**copper metal powder**

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

EINECS no. 231-159-6  
 Registration no. 01-2119480154-42  
 Concentration  $\geq 0,1$  < 1 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Aquatic Acute 1 H400  
 Aquatic Chronic 3 H412

#### toluene

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

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

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

#### Further ingredients

##### aluminium powder (stabilised)

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

##### ethanol

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

#### Note

[3] Substance with occupational exposure limits

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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

#### After inhalation

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

#### After skin contact

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

#### After eye contact

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

#### After ingestion

Do not induce vomiting. Take medical treatment.

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

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

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

#### Hints for the physician / treatment

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist

#### Non suitable extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard. Vapours can form an explosive mixture with air.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

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

#### 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.

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

#### Advice on protection against fire and explosion

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

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

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

#### Hints on storage assembly

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

#### Storage classes

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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                      | 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               |                   |     |        |

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

|                                    |                     |                   |     |        |
|------------------------------------|---------------------|-------------------|-----|--------|
| List                               | EH40                |                   |     |        |
| Value                              | 274                 | mg/m <sup>3</sup> | 50  | ppm(V) |
| Short term exposure limit          | 548                 | mg/m <sup>3</sup> | 100 | ppm(V) |
| Skin resorption / sensibilisation: | Sk; Status: 01/2020 |                   |     |        |

##### acetone

|         |                       |                   |     |        |
|---------|-----------------------|-------------------|-----|--------|
| List    | Directive 2017/164 EG |                   |     |        |
| Value   | 1210                  | mg/m <sup>3</sup> | 500 | ppm(V) |
| Status: | 12/2009               |                   |     |        |

##### acetone

|                           |         |                   |      |        |
|---------------------------|---------|-------------------|------|--------|
| List                      | EH40    |                   |      |        |
| Value                     | 1210    | mg/m <sup>3</sup> | 500  | ppm(V) |
| Short term exposure limit | 3620    | mg/m <sup>3</sup> | 1500 | ppm(V) |
| Status:                   | 01/2020 |                   |      |        |

##### ethyl acetate

|                           |                       |                   |     |        |
|---------------------------|-----------------------|-------------------|-----|--------|
| List                      | Directive 2017/164 EG |                   |     |        |
| Value                     | 734                   | mg/m <sup>3</sup> | 200 | ppm(V) |
| Short term exposure limit | 1468                  | mg/m <sup>3</sup> | 400 | ppm(V) |
| Status:                   | 02/2017               |                   |     |        |

##### ethyl acetate

|                           |         |                   |     |        |
|---------------------------|---------|-------------------|-----|--------|
| List                      | EH40    |                   |     |        |
| Value                     | 734     | mg/m <sup>3</sup> | 200 | ppm(V) |
| Short term exposure limit | 1468    | mg/m <sup>3</sup> | 400 | ppm(V) |
| Status:                   | 01/2020 |                   |     |        |

##### isobutyl acetate

|                           |         |                   |     |        |
|---------------------------|---------|-------------------|-----|--------|
| List                      | EH40    |                   |     |        |
| Value                     | 724     | mg/m <sup>3</sup> | 150 | ppm(V) |
| Short term exposure limit | 903     | mg/m <sup>3</sup> | 187 | ppm(V) |
| Status:                   | 01/2020 |                   |     |        |

##### 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               |                   |     |        |

##### n-butyl acetate

|      |      |  |  |  |
|------|------|--|--|--|
| List | EH40 |  |  |  |
|------|------|--|--|--|



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                           |         |                   |     |        |
|---------------------------|---------|-------------------|-----|--------|
| Value                     | 724     | mg/m <sup>3</sup> | 150 | ppm(V) |
| Short term exposure limit | 966     | mg/m <sup>3</sup> | 200 | ppm(V) |
| Status:                   | 01/2020 |                   |     |        |

#### **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               |                   |     |        |

#### **ethanol**

|         |         |                   |      |        |
|---------|---------|-------------------|------|--------|
| List    | EH40    |                   |      |        |
| Value   | 1920    | mg/m <sup>3</sup> | 1000 | ppm(V) |
| Status: | 01/2020 |                   |      |        |

#### **Hydrocarbons, C9, aromatics**

|         |         |                   |  |  |
|---------|---------|-------------------|--|--|
| List    | EH40    |                   |  |  |
| Value   | 500     | mg/m <sup>3</sup> |  |  |
| Status: | 01/2020 |                   |  |  |

#### **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 |

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



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                   |                  |       |
|-------------------|------------------|-------|
| Route of exposure | Dermal exposure  |       |
| Mode of action    | Systemic effects |       |
| Concentration     | 54,8             | mg/kg |

**acetone**

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Workers (professional)         |       |
| Duration of exposure | Long-term                      |       |
| Route of exposure    | inhalative                     |       |
| Mode of action       | Systemic effects               |       |
| Concentration        | 1210                           | mg/m³ |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| 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        | 186                            | mg/kg/d |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Workers (professional)         |       |
| Duration of exposure | Short-term                     |       |
| Route of exposure    | inhalative                     |       |
| Mode of action       | Local effects                  |       |
| Concentration        | 2420                           | mg/m³ |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Workers (professional)         |       |
| Duration of exposure | Short-term                     |       |
| Route of exposure    | inhalative                     |       |
| Mode of action       | Systemic effects               |       |
| Concentration        | 1210                           | mg/m³ |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| Type of value        | Derived No Effect Level (DNEL) |         |
| Reference group      | Consumer                       |         |
| Duration of exposure | Long-term                      |         |
| Route of exposure    | Oral exposure                  |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 62                             | mg/kg/d |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| Type of value        | Derived No Effect Level (DNEL) |         |
| Reference group      | Consumer                       |         |
| Duration of exposure | Long-term                      |         |
| Route of exposure    | Dermal exposure                |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 62                             | mg/kg/d |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Consumer                       |       |
| Duration of exposure | Long-term                      |       |
| Route of exposure    | inhalative                     |       |
| Mode of action       | Systemic effects               |       |
| Concentration        | 200                            | mg/m³ |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

**ethyl acetate**

|                      |                                |         |
|----------------------|--------------------------------|---------|
| Type of value        | Derived No Effect Level (DNEL) |         |
| Reference group      | Workers (professional)         |         |
| Duration of exposure | Long-term                      |         |
| Route of exposure    | Dermal exposure                |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 63                             | mg/kg/d |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 734                            | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 734                            | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 1468                           | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 1468                           | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 734                            | mg/m <sup>3</sup> |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 734                            | mg/m <sup>3</sup> |

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                      |                  |         |
|----------------------|------------------|---------|
| Duration of exposure | Long-term        |         |
| Route of exposure    | Dermal exposure  |         |
| Mode of action       | Systemic effects |         |
| Concentration        | 37               | mg/kg/d |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 367                            | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| Type of value        | Derived No Effect Level (DNEL) |         |
| Reference group      | Consumer                       |         |
| Duration of exposure | Long-term                      |         |
| Route of exposure    | Oral exposure                  |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 4,5                            | mg/kg/d |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 367                            | mg/m <sup>3</sup> |

**isobutyl acetate**

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

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 300                            | mg/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               |  |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

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

|               |     |                   |
|---------------|-----|-------------------|
| Concentration | 300 | mg/m <sup>3</sup> |
|---------------|-----|-------------------|

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

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

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

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

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

|               |     |                   |
|---------------|-----|-------------------|
| Concentration | 600 | mg/m <sup>3</sup> |
|---------------|-----|-------------------|

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

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

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

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

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

|               |     |                   |
|---------------|-----|-------------------|
| Concentration | 600 | mg/m <sup>3</sup> |
|---------------|-----|-------------------|

**n-butyl acetate**

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

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

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

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

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

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

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

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

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

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

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

|                |                  |
|----------------|------------------|
| Mode of action | Specific effects |
|----------------|------------------|

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

**ethanol**

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

|                 |                      |
|-----------------|----------------------|
| Reference group | Workers (industrial) |
|-----------------|----------------------|

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

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

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

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

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

|                 |                      |
|-----------------|----------------------|
| Reference group | Workers (industrial) |
|-----------------|----------------------|

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

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

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

|               |     |         |
|---------------|-----|---------|
| Concentration | 343 | mg/kg/d |
|---------------|-----|---------|

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Reference group      | Workers (industrial)           |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 960                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Acute effects                  |                   |
| Concentration        | 960                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | Dermal exposure                |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 206                            | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 114                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | Oral exposure                  |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 87                             | mg/kg/d           |
| <b>toluene</b>       |                                |                   |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 343                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 384                            | mg/kg             |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Mode of action       | Local effects                  |                   |
| Concentration        | 192                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (professional)         |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 192                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | Dermal exposure                |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 384                            | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 226                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 226                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 56,5                           | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | Dermal exposure                |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 226                            | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | Oral exposure                  |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 8,13                           | mg/kg/d           |

**Hydrocarbons, C9, aromatics**

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

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

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Workers (industrial)           |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 5                              | mg/m <sup>3</sup> |

|                      |                                |         |
|----------------------|--------------------------------|---------|
| Type of value        | Derived No Effect Level (DNEL) |         |
| Reference group      | Workers (industrial)           |         |
| Duration of exposure | Long-term                      |         |
| Route of exposure    | Dermal exposure                |         |
| Mode of action       | Systemic effects               |         |
| Concentration        | 83                             | mg/kg/d |

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Route of exposure    | Oral exposure                  |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 0,83                           | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 2,5                            | mg/m <sup>3</sup> |

### **Predicted No Effect Concentration (PNEC)**

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

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

#### **acetone**

|               |                      |      |
|---------------|----------------------|------|
| Type of value | PNEC                 |      |
| Type          | Freshwater           |      |
| Concentration | 10,6                 | mg/l |
| Type of value | PNEC                 |      |
| Type          | Saltwater            |      |
| Concentration | 1,06                 | mg/l |
| Type of value | PNEC                 |      |
| Type          | Fresh water sediment |      |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

Concentration 30,4 mg/kg

Type of value PNEC  
Type saltwater sediment

Concentration 3,04 mg/kg

Type of value PNEC  
Type Soil

Concentration 29,5 mg/kg

Type of value PNEC  
Type Sewage treatment plant (STP)

Concentration 100 mg/l

Type of value PNEC  
Conditions sporadic release

Concentration 21 mg/l

**ethyl acetate**

Type of value PNEC  
Type Saltwater

Concentration 0,026 mg/l

Type of value PNEC  
Type Freshwater

Concentration 0,26 mg/l

Type of value PNEC  
Type Soil

Concentration 0,24 mg/kg

Type of value PNEC  
Type Sewage treatment plant (STP)

Concentration 650 mg/l

Type of value PNEC  
Type saltwater sediment

Concentration 0,125 mg/kg

Type of value PNEC  
Type Fresh water sediment

Concentration 1,25 mg/kg

Type of value PNEC  
Conditions sporadic release

Concentration 1,65 mg/l

**isobutyl acetate**

Type of value PNEC  
Type Freshwater

Concentration 0,17 mg/l

Type of value PNEC

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                        |                              |       |
|------------------------|------------------------------|-------|
| Type                   | Saltwater                    |       |
| Concentration          | 0,017                        | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Water                        |       |
| Conditions             | sporadic release             |       |
| Concentration          | 0,34                         | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Sewage treatment plant (STP) |       |
| Concentration          | 200                          | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Fresh water sediment         |       |
| Concentration          | 0,877                        | mg/kg |
| Type of value          | PNEC                         |       |
| Type                   | saltwater sediment           |       |
| Concentration          | 0,0877                       | mg/kg |
| Type of value          | PNEC                         |       |
| Type                   | Soil                         |       |
| Concentration          | 0,0755                       | mg/kg |
| <b>n-butyl acetate</b> |                              |       |
| Type of value          | PNEC                         |       |
| Type                   | Freshwater                   |       |
| Concentration          | 0,18                         | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Saltwater                    |       |
| Concentration          | 0,018                        | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Sewage treatment plant (STP) |       |
| Concentration          | 35,6                         | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Water                        |       |
| Conditions             | sporadic release             |       |
| Concentration          | 0,36                         | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Fresh water sediment         |       |
| Concentration          | 0,981                        | mg/kg |
| Type of value          | PNEC                         |       |
| Type                   | saltwater sediment           |       |
| Concentration          | 0,0981                       | mg/l  |
| Type of value          | PNEC                         |       |
| Type                   | Soil                         |       |
| Concentration          | 0,0903                       | mg/kg |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

**ethanol**

|               |                              |       |
|---------------|------------------------------|-------|
| Type of value | PNEC                         |       |
| Type          | Freshwater                   |       |
| Concentration | 0,96                         | mg/l  |
| Type of value | PNEC                         |       |
| Type          | marine water                 |       |
| Concentration | 0,79                         | mg/l  |
| Type of value | PNEC                         |       |
| Conditions    | sporadic release             |       |
| Concentration | 2,75                         | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Sewage treatment plant (STP) |       |
| Concentration | 580                          | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Fresh water sediment         |       |
| Concentration | 3,6                          | mg/kg |
| Type of value | PNEC                         |       |
| Type          | saltwater sediment           |       |
| Concentration | 2,9                          | mg/kg |
| Type of value | PNEC                         |       |
| Type          | Soil                         |       |
| Concentration | 0,63                         | mg/kg |

**toluene**

|               |                              |       |
|---------------|------------------------------|-------|
| Type of value | PNEC                         |       |
| Type          | Freshwater                   |       |
| Concentration | 0,68                         | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Fresh water sediment         |       |
| Concentration | 16,39                        | mg/kg |
| Type of value | PNEC                         |       |
| Type          | Soil                         |       |
| Concentration | 2,89                         | mg/kg |
| Type of value | PNEC                         |       |
| Type          | Sewage treatment plant (STP) |       |
| Concentration | 13,61                        | mg/l  |

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

|               |            |      |
|---------------|------------|------|
| Type of value | PNEC       |      |
| Type          | Freshwater |      |
| Concentration | 0,0206     | mg/l |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

## 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.

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



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

## 9.1. Information on basic physical and chemical properties

### Physical state

liquid

### Colour

coloured

### Odour

solvent-like

### Melting point

Remarks not determined

### Freezing point

Remarks not determined

### Boiling point or initial boiling point and boiling range

Value 55,8 to 217 °C

### Flammability

not determined

### Upper and lower explosive limits

Remarks not determined

### Flash point

Value < 21 °C

### Ignition temperature

Remarks not determined

### Decomposition temperature

Remarks not determined

### Viscosity

Remarks not determined

### Solubility(ies)

Remarks not determined

### Partition coefficient n-octanol/water (log value)

Remarks not determined

### Vapour pressure

Remarks not determined

### Density and/or relative density

Value appr. 1,04 kg/l  
Temperature 20 °C

### Relative vapour density

Remarks not determined

### Particle characteristics

Remarks not determined

## 9.2. Other information

### Odour threshold

Remarks not determined

### Evaporation rate

Remarks not determined

### Solubility in water

Remarks not determined

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

#### Efflux time

|             |                |    |    |   |
|-------------|----------------|----|----|---|
| Value       | 36             | to | 44 | s |
| Temperature | 20             | °C |    |   |
| Method      | DIN 53211 4 mm |    |    |   |

#### Explosive properties

evaluation not determined

#### Oxidising properties

Remarks not determined

#### Non-volatile content

Value appr. 26,8 %

#### 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. |

#### Acute oral toxicity (Components)

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

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

#### Acute dermal toxicity

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

### Acute inhalational toxicity

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

### Acute inhalative toxicity (Components)

#### aluminium powder (stabilised)

Species rat  
LC50 > 5 mg/l  
Duration of exposure 4 h  
Remarks Mist

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

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

### Skin corrosion/irritation

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

### Skin corrosion/irritation (Components)

#### toluene

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

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

evaluation No skin irritation

### Serious eye damage/irritation

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

### Serious eye damage/irritation (Components)

#### acetone

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

#### ethyl acetate

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

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

evaluation No eye irritation

### Sensitization

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

### Sensitization (Components)

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

evaluation No sensitizing effects known.

### Mutagenicity

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

### Reproductive toxicity

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

### Reproduction toxicity (Components)

#### toluene

evaluation Reproductive toxicity, Category 2

### Carcinogenicity

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

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

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

evaluation May cause drowsiness or dizziness.  
Organs: Nervous system

#### acetone

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

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

#### ethyl acetate

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

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

#### isobutyl acetate

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

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

#### n-butyl acetate

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

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

#### toluene

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

#### Specific target organ toxicity - single exposure

Organs: Liver

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

#### toluene

#### Specific target organ toxicity - repeated exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

#### Hydrocarbons, C9, aromatics

#### Specific target organ toxicity - single exposure

Route of exposure inhalative

Remarks Possible narcotic effects (drowsiness, dizziness).

#### Hydrocarbons, C9, aromatics

#### Specific target organ toxicity - single exposure

Remarks Possible narcotic effects (drowsiness, dizziness).

#### Aspiration hazard

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

### 11.2 Information on other hazards

#### Endocrine disrupting properties with respect to humans

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

#### Other information

No toxicological data are available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

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

#### Fish toxicity (Components)

##### Hydrocarbons, C9, aromatics

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

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

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

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

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

#### Daphnia toxicity (Components)

##### Hydrocarbons, C9, aromatics

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

#### Hydrocarbons, C9, aromatics

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

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

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

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

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

#### Algae toxicity (Components)

##### Hydrocarbons, C9, aromatics

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

### 12.2. Persistence and degradability

#### General information

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

#### Biodegradability (Components)

##### Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

### 12.3. Bioaccumulative potential

#### General information

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

#### Partition coefficient n-octanol/water (log value)

Remarks not determined

### 12.4. Mobility in soil

#### General information

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

#### Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

#### General information

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

#### Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

### 12.6 Endocrine disrupting properties

#### Endocrine disrupting properties with respect to the environment

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

## 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

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



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                                  | Land transport ADR/RID  | Marine transport IMDG/GGVSee   | Air transport ICAO/IATA   |
|----------------------------------|---|--|---|
| Tunnel restriction code          | D/E   |  |   |
| 14.1. UN number                  | 1263  | 1263   | 1263  |
| 14.2. UN proper shipping name    | PAINT   | PAINT  | PAINT   |
| 14.3. Transport hazard class(es) | 3   | 3  | 3   |
| Label                            |  |  |  |
| 14.4. Packing group              | II  | II   | II  |
| Special provision                | 640D  |  |   |
| Limited Quantity                 | 5 l   |  |   |
| Transport category               | 2   |  |   |

## SECTION 15: Regulatory information

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

#### VOC

VOC (EU) appr. 72,7 % 700 g/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.              |
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H304   | May be fatal if swallowed and enters airways.                      |
| H315   | Causes skin irritation.  |
| H319   | Causes serious eye irritation.                                     |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H361d  | Suspected of damaging the unborn child.                            |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.  |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|      |   |
|------|---|
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

### **CLP categories listed in Chapter 3**

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

### **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)  
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**

ES001 - Industrial applications: industrial spraying (inside)

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

### Use of the substance/preparation

Surface treatment of wood and other materials

#### Use

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

### Contributing exposure scenario controlling environmental exposure

#### Use

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

**Physical form** liquid

#### Maximum amount used per time or activity

Emission days per site: <= 300

#### Other relevant operational conditions

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

#### Waste water

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

#### Exhaust air

Keep container closed. Avoid release to the environment.

#### Soil

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

#### Disposal recommendations for the product

|                |  |
|----------------|--|
| EWC waste code | 080111 - waste paint and varnish containing organic solvents or other dangerous substances<br>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<br>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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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**

### **Use**

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

### **Physical form**

liquid

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

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

### **Other relevant operational conditions**

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

### **Product substance and product safety related measures**

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

### **Respiratory protection**

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

### **Hand protection**

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.

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

## Exposure estimation and reference to its source

### Workers (industrial)

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

### Workers (industrial)

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

### Workers (industrial)

|                                   |  |
|-----------------------------------|--|
| SU                                | SU3  |
| PROC                              | PROC10                                     |
| Assessment method                 | inhalation, long-term - local and systemic |
| Exposure assessment               | 55,08 mg/m <sup>3</sup>                    |
| Exposure assessment (method)      | ECETOC TRA                                 |
| Risk characterisation ratio (RCR) | 0,2  |
| Lead substance                    | 2-methoxy-1-methylethyl acetate            |

### Workers (industrial)

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

### Workers (industrial)

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

### Workers (industrial)

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

**Workers (industrial)**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| SU                                | SU3                              |
| PROC                              | PROC7                            |
| Assessment method                 | inhalation, long-term - systemic |
|                                   | Indoor use                       |
| Exposure assessment               | 200 mg/m <sup>3</sup>            |
| Exposure assessment (method)      | ECETOC TRA                       |
| Risk characterisation ratio (RCR) | 0,05                             |
| Lead substance                    | acetone                          |

**Workers (industrial)**

|                                   |                              |
|-----------------------------------|------------------------------|
| SU                                | SU3                          |
| PROC                              | PROC7                        |
| Assessment method                 | dermal, long-term - systemic |
|                                   | Indoor use                   |
| Exposure assessment               | 62 mg/kg/d                   |
| Exposure assessment (method)      | ECETOC TRA                   |
| Risk characterisation ratio (RCR) | 0,01                         |
| Lead substance                    | acetone                      |

**Workers (industrial)**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| SU                                | SU3                              |
| PROC                              | PROC10                           |
| Assessment method                 | inhalation, long-term - systemic |
|                                   | Indoor use                       |
| Exposure assessment               | 200 mg/m <sup>3</sup>            |
| Exposure assessment (method)      | ECETOC TRA                       |
| Risk characterisation ratio (RCR) | 0,5                              |
| Lead substance                    | acetone                          |

**Workers (industrial)**

|                                   |                              |
|-----------------------------------|------------------------------|
| SU                                | SU3                          |
| PROC                              | PROC10                       |
| Assessment method                 | dermal, long-term - systemic |
|                                   | Indoor use                   |
| Exposure assessment               | 62 mg/kg/d                   |
| Exposure assessment (method)      | ECETOC TRA                   |
| Risk characterisation ratio (RCR) | 0,15                         |
| Lead substance                    | acetone                      |

**Workers (industrial)**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| SU                                | SU3                              |
| PROC                              | PROC13                           |
| Assessment method                 | inhalation, long-term - systemic |
|                                   | Indoor use                       |
| Exposure assessment               | 200 mg/m <sup>3</sup>            |
| Exposure assessment (method)      | ECETOC TRA                       |
| Risk characterisation ratio (RCR) | 0,5                              |
| Lead substance                    | acetone                          |

**Workers (industrial)**

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

**Workers (industrial)**

SU SU3  
PROC PROC7  
Assessment method dermal, long-term - systemic  
Exposure assessment 63 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,034  
Lead substance ethyl acetate

**Workers (industrial)**

SU SU3  
PROC PROC7  
Assessment method inhalation, long-term - local  
Exposure assessment 734 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,075  
Lead substance ethyl acetate

**Workers (industrial)**

SU SU3  
PROC PROC10  
Assessment method dermal, long-term - systemic  
Exposure assessment 63 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,011  
Lead substance ethyl acetate

**Workers (industrial)**

SU SU3  
PROC PROC10  
Assessment method inhalation, long-term - local  
Exposure assessment 734 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,075  
Lead substance ethyl acetate

**Workers (industrial)**

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

**Workers (industrial)**

PROC PROC10  
Assessment method inhalation, long-term - local and systemic  
Indoor use  
Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

Risk characterisation ratio (RCR) 0,504  
Lead substance isobutyl acetate

**Workers (industrial)**

PROC PROC13  
Assessment method inhalation, long-term - local and systemic  
Indoor use  
Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,504  
Lead substance isobutyl acetate

**Workers (industrial)**

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

**Workers (industrial)**

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

**Workers (industrial)**

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

**Workers (industrial)**

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

**Workers (industrial)**

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

Print date: 16.01.23

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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 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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

PROC  
Assessment method

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

**Workers (professional)**

SU  
PROC  
Assessment method

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

**Workers (professional)**

SU  
PROC  
Assessment method

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

**Workers (professional)**

SU  
PROC  
Assessment method

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

SU  
Assessment method

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

SU  
Assessment method

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

**Workers (professional)**

SU  
PROC

PROC11  
inhalation, long-term - local and systemic  
Indoor use  
27,54 mg/m<sup>3</sup>  
ECETOC TRA  
0,1  
2-methoxy-1-methylethyl acetate

SU22  
PROC11  
dermal, long-term - local and systemic  
Indoor use  
2,14 mg/kg/d  
ECETOC TRA  
0,01  
2-methoxy-1-methylethyl acetate

SU22  
PROC11  
inhalation, long-term - local and systemic  
Outdoor use  
55,08 mg/m<sup>3</sup>  
ECETOC TRA  
0,2  
2-methoxy-1-methylethyl acetate

SU22  
PROC11  
dermal, long-term - local and systemic  
Outdoor use  
107,14 mg/kg/d  
ECETOC TRA  
0,7  
2-methoxy-1-methylethyl acetate

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

SU21  
inhalation, long-term - systemic  
Indoor use  
6,83 mg/m<sup>3</sup>  
ConsExpo v4.1  
0,6  
2-methoxy-1-methylethyl acetate

SU22  
PROC10

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                                   |                                  |
|-----------------------------------|----------------------------------|
| 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                       |
| 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   | dermal, long-term - systemic |
| Exposure assessment | 63 mg/kg/d                   |

Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

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

ECETOC TRA  
0,022  
ethyl acetate

**Workers (professional)**

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

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

**Workers (professional)**

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

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

**Workers (professional)**

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

SU22  
PROC11  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,018  
ethyl acetate

**Workers (professional)**

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

SU22  
PROC11  
inhalation, long-term - local and systemic  
Indoor use  
242 mg/m<sup>3</sup>  
ECETOC TRA  
0,504  
isobutyl acetate

**Workers (professional)**

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

SU22  
PROC11  
inhalation, long-term - local and systemic  
Outdoor use  
242 mg/m<sup>3</sup>  
ECETOC TRA  
0,504  
isobutyl acetate

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC11  
Long-term  
inhalative



Trade name: Hesse CREATIVE-METALLIC, silky gloss PEX DB 46557-FT

Version: 6 / GB

Revision: 30.11.2022

Replaces Version: 5 / GB

Print date: 16.01.23

|                                   |                 |                   |
|-----------------------------------|-----------------|-------------------|
| Exposure assessment               | 242             | mg/m <sup>3</sup> |
| Exposure assessment (method)      | ECETOC TRA      |                   |
| Risk characterisation ratio (RCR) | 0,504           |                   |
| Lead substance                    | n-butyl acetate |                   |

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

### **Guidance for Downstream Users**

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