

Trade name: Hesse CN-Ethanol Multicoat lacquer, matt EH 31112

Version: 38 / GB

Revision: 25.03.2022

Replaces Version: 37 / GB

Print date: 04.05.22

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Hesse CN-Ethanol Multicoat lacquer, matt EH 31112

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

|        | REACHSET 2001  |
|--------|--|
| SU22   | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| ERC8a  | Wide dispersive indoor use of processing aids in open systems                                    |
| ERC8c  | Wide dispersive indoor use resulting in inclusion into or onto a matrix                          |
| PROC11 | Non industrial spraying  |

### 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

## 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 |
| Eye Dam. 1   | H318 |
| STOT SE 3    | H336 |

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

### 2.2. Label elements

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

#### Hazard pictograms



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**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
 H318 Causes serious eye damage.  
 H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.

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

contains propan-2-ol; 2-ethoxy-1-methylethyl acetate; isobutyl acetate; n-propanol

**Supplemental information**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

**3. Composition/information on ingredients****Hazardous ingredients****isobutyl acetate**

|  |                  |   |        |                |
|--|------------------|---|--------|----------------|
| CAS No.  | 110-19-0         |   |        |                |
| EINECS no.                                     | 203-745-1        |   |        |                |
| Registration no.                               | 01-2119488971-22 |   |        |                |
| Concentration                                  | >= 20            | < | 25     | %              |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 2     |   | H225   |                |
|  | STOT SE 3        |   | H336   | Nervous system |
|  |                  |   | EUH066 |                |

**n-butyl acetate**

|  |                  |   |        |                |
|--|------------------|---|--------|----------------|
| CAS No.  | 123-86-4         |   |        |                |
| EINECS no.                                     | 204-658-1        |   |        |                |
| Registration no.                               | 01-2119485493-29 |   |        |                |
| Concentration                                  | >= 1             | < | 10     | %              |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 3     |   | H226   |                |
|  | STOT SE 3        |   | H336   | Nervous system |
|  |                  |   | EUH066 |                |

**2-ethoxy-1-methylethyl acetate**

CAS No. 54839-24-6

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EINECS no. 259-370-9  
 Registration no. 01-2119475116-39  
 Concentration  $\geq 1$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 3 H226  
 STOT SE 3 H336 Nervous system

**n-propanol**

CAS No. 71-23-8  
 EINECS no. 200-746-9  
 Registration no. 01-2119486761-29  
 Concentration  $\geq 3$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225  
 Eye Dam. 1 H318  
 STOT SE 3 H336 Nervous system

**propan-2-ol**

CAS No. 67-63-0  
 EINECS no. 200-661-7  
 Registration no. 01-2119457558-25  
 Concentration  $\geq 1$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225  
 Eye Irrit. 2 H319  
 STOT SE 3 H336 Nervous system

**cellulose nitrate  $\leq 12.6$  % N**

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

**Further ingredients****ethanol**

CAS No. 64-17-5  
 EINECS no. 200-578-6  
 Registration no. 01-2119457610-43  
 Concentration  $\geq 25$  < 50 %  
 Advice: [3]  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225

**Note**

[3] Substance with occupational exposure limits

**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

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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.

**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.

**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**

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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.

## 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 smoking. Store in accordance with the particular national regulations.

### 7.3. Specific end use(s)

See exposure scenario, if available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

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**Exposure limit values****propan-2-ol**

|                           |         |                   |     |        |
|---------------------------|---------|-------------------|-----|--------|
| List                      | EH40    |                   |     |        |
| Value                     | 999     | mg/m <sup>3</sup> | 400 | ppm(V) |
| Short term exposure limit | 1250    | mg/m <sup>3</sup> | 500 | 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    |                   |     |        |
| 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 |                   |      |        |

**n-propanol**

|                                    |                     |                   |     |        |
|------------------------------------|---------------------|-------------------|-----|--------|
| List                               | EH40                |                   |     |        |
| Value                              | 500                 | mg/m <sup>3</sup> | 200 | ppm(V) |
| Short term exposure limit          | 625                 | mg/m <sup>3</sup> | 250 | ppm(V) |
| Skin resorption / sensibilisation: | Sk; Status: 01/2020 |                   |     |        |

**Other information**

-

**Derived No/Minimal Effect Levels (DNEL/DMEL)****isobutyl acetate**

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

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

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

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

**n-butyl acetate**

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

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

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



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|----------------------|--------------------------------|-------------------|
| Route of exposure    | Oral exposure                  |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 2                              | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 300                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short-term                     |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 300                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 35,7                           | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long-term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Local effects                  |                   |
| Concentration        | 35,7                           | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short term                     |                   |
| Route of exposure    | oral                           |                   |
| Mode of action       | Specific effects               |                   |
| Concentration        | 2                              | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Short term                     |                   |
| Route of exposure    | Dermal exposure                |                   |
| Mode of action       | Specific effects               |                   |
| Concentration        | 6                              | mg/kg/d           |
| 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           |

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**n-propanol**

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 136 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 268 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 1723 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 81 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 80 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 1036 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 61 mg/kg

**propan-2-ol**

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

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|----------------------|-----------------|---------|
| Duration of exposure | Long-term       |         |
| Route of exposure    | Dermal exposure |         |
| Mode of action       | Chronic effects |         |
| Concentration        | 888             | 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       | Chronic effects                |                   |
| Concentration        | 500                            | 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       | Chronic effects                |                   |
| Concentration        | 89                             | 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       | Chronic effects                |         |
| Concentration        | 26                             | 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        | 319                            | mg/kg/d |

**2-ethoxy-1-methylethyl acetate**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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        | 608                            | 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        | 103                            | mg/kg/d |

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

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Concentration 302 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 365 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 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 181 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 13,1 mg/kg/d

**ethanol**

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Local effects

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

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Long-term

Route of exposure Dermal exposure

Mode of action Systemic effects

Concentration 343 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

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

Type of value Derived No Effect Level (DNEL)

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

**Predicted No Effect Concentration (PNEC)**

**isobutyl acetate**

|               |                              |       |
|---------------|------------------------------|-------|
| Type of value | PNEC                         |       |
| Type          | Freshwater                   |       |
| Concentration | 0,17                         | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Saltwater                    |       |
| Concentration | 0,017                        | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Water                        |       |
| Conditions    | sporadic release             |       |
| Concentration | 0,34                         | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Sewage treatment plant (STP) |       |
| Concentration | 200                          | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Fresh water sediment         |       |
| Concentration | 0,877                        | mg/kg |
| Type of value | PNEC                         |       |
| Type          | saltwater sediment           |       |

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Concentration 0,0877 mg/kg

Type of value PNEC  
Type Soil

Concentration 0,0755 mg/kg

**n-butyl acetate**

Type of value PNEC  
Type Freshwater

Concentration 0,18 mg/l

Type of value PNEC  
Type Saltwater

Concentration 0,018 mg/l

Type of value PNEC  
Type Sewage treatment plant (STP)

Concentration 35,6 mg/l

Type of value PNEC  
Type Water  
Conditions sporadic release

Concentration 0,36 mg/l

Type of value PNEC  
Type Fresh water sediment

Concentration 0,981 mg/kg

Type of value PNEC  
Type saltwater sediment

Concentration 0,0981 mg/l

Type of value PNEC  
Type Soil

Concentration 0,0903 mg/kg

**n-propanol**

Type of value PNEC  
Type Freshwater

Concentration 10 mg/l

Type of value PNEC  
Type Sewage treatment plant (STP)

Concentration 96 mg/l

Type of value PNEC  
Type Soil

Concentration 2,2 mg/kg

Type of value PNEC  
Type saltwater sediment

Concentration 2,28 mg/kg

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|               |                      |       |
|---------------|----------------------|-------|
| Type of value | PNEC                 |       |
| Type          | Fresh water sediment |       |
| Concentration | 22,8                 | mg/kg |

|               |                  |      |
|---------------|------------------|------|
| Type of value | PNEC             |      |
| Conditions    | sporadic release |      |
| Concentration | 10               | mg/l |

|               |           |      |
|---------------|-----------|------|
| Type of value | PNEC      |      |
| Type          | Saltwater |      |
| Concentration | 1         | mg/l |

**propan-2-ol**

|               |            |      |
|---------------|------------|------|
| Type of value | PNEC       |      |
| Type          | Freshwater |      |
| Concentration | 140,9      | mg/l |

|               |           |      |
|---------------|-----------|------|
| Type of value | PNEC      |      |
| Type          | Saltwater |      |
| Concentration | 140,9     | mg/l |

|               |                  |      |
|---------------|------------------|------|
| Type of value | PNEC             |      |
| Conditions    | sporadic release |      |
| Concentration | 140,9            | mg/l |

|               |                      |       |
|---------------|----------------------|-------|
| Type of value | PNEC                 |       |
| Type          | Fresh water sediment |       |
| Concentration | 552                  | mg/kg |

|               |                    |       |
|---------------|--------------------|-------|
| Type of value | PNEC               |       |
| Type          | saltwater sediment |       |
| Concentration | 552                | mg/kg |

|               |      |       |
|---------------|------|-------|
| Type of value | PNEC |       |
| Type          | Soil |       |
| Concentration | 28   | mg/kg |

|               |                              |      |
|---------------|------------------------------|------|
| Type of value | PNEC                         |      |
| Type          | Sewage treatment plant (STP) |      |
| Concentration | 2251                         | mg/l |

**2-ethoxy-1-methylethyl acetate**

|               |            |      |
|---------------|------------|------|
| Type of value | PNEC       |      |
| Type          | Freshwater |      |
| Concentration | 1,3        | mg/l |

|               |           |      |
|---------------|-----------|------|
| Type of value | PNEC      |      |
| Type          | Saltwater |      |
| Concentration | 0,13      | mg/l |

|               |                      |       |
|---------------|----------------------|-------|
| Type of value | PNEC                 |       |
| Type          | Fresh water sediment |       |
| Concentration | 6,4                  | mg/kg |

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|                |                              |  |       |
|----------------|------------------------------|--|-------|
| Type of value  | PNEC                         |  |       |
| Type           | saltwater sediment           |  |       |
| Concentration  | 0,64                         |  | mg/kg |
| Type of value  | PNEC                         |  |       |
| Type           | Soil                         |  |       |
| Concentration  | 1,34                         |  | mg/kg |
| Type of value  | PNEC                         |  |       |
| Type           | Sewage treatment plant (STP) |  |       |
| Concentration  | 62,5                         |  | mg/l  |
| <b>ethanol</b> |                              |  |       |
| Type of value  | PNEC                         |  |       |
| Type           | Freshwater                   |  |       |
| Concentration  | 0,96                         |  | mg/l  |
| Type of value  | PNEC                         |  |       |
| Type           | marine water                 |  |       |
| Concentration  | 0,79                         |  | mg/l  |
| Type of value  | PNEC                         |  |       |
| Conditions     | sporadic release             |  |       |
| Concentration  | 2,75                         |  | mg/l  |
| Type of value  | PNEC                         |  |       |
| Type           | Sewage treatment plant (STP) |  |       |
| Concentration  | 580                          |  | mg/l  |
| Type of value  | PNEC                         |  |       |
| Type           | Fresh water sediment         |  |       |
| Concentration  | 3,6                          |  | mg/kg |
| Type of value  | PNEC                         |  |       |
| Type           | saltwater sediment           |  |       |
| Concentration  | 2,9                          |  | mg/kg |
| Type of value  | PNEC                         |  |       |
| Type           | Soil                         |  |       |
| Concentration  | 0,63                         |  | mg/kg |

## 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



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**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 mmBreakthrough 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.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |                |
|---|----------------|
| <b>Form</b>   | liquid         |
| <b>Colour</b>                                       | colourless     |
| <b>Odour</b>  | alcohol-like   |
| <b>Odour threshold</b>                              |                |
| Remarks   | not determined |
| <b>Melting point</b>                                |                |
| Remarks   | not determined |
| <b>Freezing point</b>                               |                |
| Remarks   | not determined |
| <b>Initial boiling point and boiling range</b>      |                |
| Value   | 78 to 190 °C   |
| <b>Flash point</b>                                  |                |
| Value   | 10 °C          |
| <b>Evaporation rate</b>                             |                |
| Remarks   | not determined |
| <b>Flammability (solid, gas)</b>                    |                |
| not determined                                      |                |
| <b>Upper/lower flammability or explosive limits</b> |                |
| Remarks   | not determined |
| <b>Vapour pressure</b>                              |                |

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Remarks not determined

**Vapour density**

Remarks not determined

**Density**

|             |             |    |  |      |
|-------------|-------------|----|--|------|
| Value       | appr. 0,916 |    |  | kg/l |
| Temperature | 20          | °C |  |      |

**Solubility in water**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

**Efflux time**

|             |                |    |    |   |
|-------------|----------------|----|----|---|
| Value       | 28             | to | 34 | s |
| Temperature | 20             | °C |    |   |
| Method      | DIN 53211 4 mm |    |    |   |

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**9.2. Other information****Non-volatile content**

|        |                  |   |
|--------|------------------|---|
| Value  | 21,7             | % |
| Method | calculated value |   |

**Other information**

This information is not available.

**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.

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**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 (NOx), dense black smoke, No decomposition if used as prescribed.

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

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

**Acute dermal toxicity**

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

**Acute inhalational toxicity**

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

**Skin corrosion/irritation**

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

**Serious eye damage/irritation**

evaluation corrosive  
 Method Calculation method (Regulation (EC) No. 1272/2008)  
 Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)****propan-2-ol**

Species rabbit  
 Observation Period 14 d  
 evaluation Irritating to eyes.  
 Source 1 (reliable without restriction)

**n-propanol**

Species rabbit

**Sensitization**

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

**Mutagenicity**

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

**Reproductive toxicity**

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

**Carcinogenicity**

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

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**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)****propan-2-ol****Specific target organ toxicity - single exposure**

|         |  |
|---------|--|
| Remarks | Organs: Nervous system<br>Possible narcotic effects (drowsiness, dizziness). |
|---------|--|

**2-ethoxy-1-methylethyl acetate****Specific target organ toxicity - repeated exposure**

|         |  |
|---------|--|
| Remarks | Organs: Nervous system<br>Possible narcotic effects (drowsiness, dizziness). |
|---------|--|

**isobutyl acetate****Specific target organ toxicity - repeated exposure**

|         |  |
|---------|--|
| Remarks | Organs: Nervous system<br>Possible narcotic effects (drowsiness, dizziness). |
|---------|--|

**n-butyl acetate****Specific target organ toxicity - repeated exposure**

|         |  |
|---------|--|
| Remarks | Organs: Nervous system<br>Possible narcotic effects (drowsiness, dizziness). |
|---------|--|

**n-propanol**

|         |  |
|---------|--|
| Remarks | Route of exposure inhalative<br>Organs: Nervous system<br>Possible narcotic effects (drowsiness, dizziness). |
|---------|--|

**Aspiration hazard**

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

**Other information**

No toxicological data are available.

**12. Ecological information****12.1. Toxicity****General information**

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

**12.2. Persistence and degradability****General information**

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

**12.3. Bioaccumulative potential****General information**

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

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**Partition coefficient: n-octanol/water**

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.

**12.6. 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.

**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.

**14. Transport information**




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

## 15. Regulatory information

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

#### VOC

VOC (EU) 76,2 % 698 g/l

### 15.2. Chemical safety assessment

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

## 16. Other information

### Hazard statements listed in Chapter 3

EUH066 Repeated exposure may cause skin dryness or cracking.  
 H201 Explosive; mass explosion hazard.  
 H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

### CLP categories listed in Chapter 3

Expl. 1.1 Explosive, Division 1.1  
 Eye Dam. 1 Serious eye damage, Category 1  
 Eye Irrit. 2 Eye irritation, Category 2

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Flam. Liq. 2

Flammable liquid, Category 2

Flam. Liq. 3

Flammable liquid, Category 3

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**

ES003 - Professional uses: Non industrial spraying (inside)

**Use of the substance/preparation**

Surface treatment of wood and other materials

**Use**

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

**Contributing exposure scenario controlling environmental exposure****Use**

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

**Physical form** liquid

**Maximum amount used per time or activity**

Emission days per site: <= 250

**Other relevant operational conditions**

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

**Waste water**

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

**Exhaust air**

Keep container closed. Avoid release to the environment.

**Soil**

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

**Disposal recommendations for the product**

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

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

**modified product**

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

**Dried residues**

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

**Disposal recommendations for packaging**

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

Completely emptied packagings can be given for recycling.

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

**Short title of the exposure scenario**

Substance number:CES006

**Use**

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



Trade name: Hesse CN-Ethanol Multicoat lacquer, matt EH 31112

Version: 38 / GB

Revision: 25.03.2022

Replaces Version: 37 / GB

Print date: 04.05.22

**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 &gt;= 0,7

Breakthrough time &gt;= 30

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

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

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

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

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

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

**Eye protection**

Wear eye glasses with side protection according to EN 166.

**Body protection**

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

**Exposure estimation and reference to its source****Workers (professional)**

|                              |  |
|------------------------------|--|
| SU                           | SU22                                       |
| PROC                         | PROC11                                     |
| 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 CN-Ethanol Multicoat lacquer, matt EH 31112

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

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method inhalation, long-term - local and systemic  
Outdoor use

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

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method Long-term  
inhalative

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

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method inhalation, long-term - systemic

Exposure assessment 25,042 mg/m<sup>3</sup>  
Risk characterisation ratio (RCR) 0,09344  
Lead substance n-propanol

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method dermal, long-term - systemic

Exposure assessment 5,486 mg/kg/d  
Risk characterisation ratio (RCR) 0,04034  
Lead substance n-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method inhalation, long-term - systemic

Exposure assessment 185,09 mg/m<sup>3</sup>  
Risk characterisation ratio (RCR) 0,6906  
Lead substance n-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method dermal, long-term - systemic

Exposure assessment 15,753 mg/kg/d  
Risk characterisation ratio (RCR) 0,1158  
Lead substance n-propanol

**Workers (professional)**

SU SU22

Trade name: Hesse CN-Ethanol Multicoat lacquer, matt EH 31112

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|                                   |                                  |
|-----------------------------------|----------------------------------|
| PROC                              | PROC13                           |
| Assessment method                 | inhalation, long-term - systemic |
| Exposure assessment               | 25,042 mg/m <sup>3</sup>         |
| Risk characterisation ratio (RCR) | 0,93437                          |
| Lead substance                    | n-propanol                       |

**Workers (professional)**

|                                   |                              |
|-----------------------------------|------------------------------|
| SU                                | SU22                         |
| PROC                              | PROC13                       |
| Assessment method                 | dermal, long-term - systemic |
| Exposure assessment               | 2,743 mg/kg/d                |
| Risk characterisation ratio (RCR) | 0,02017                      |
| Lead substance                    | n-propanol                   |

**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.