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

## 1.1. Product identifier

Hesse Rustic stain CL 15-7376

## 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

| | |
|---|---|
| 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 Irrit. 2 | H319 |
| 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

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

### Hazard pictograms

### Signal word

Danger

### Hazard statements

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| 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. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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

| | |
|---|---|
| contains | 1-methoxy-2-propanol; 2-methylpropan-1-ol; ethyl acetate; n-butyl acetate |
| EUH208 Contains | Solvent Yellow 82, May produce an allergic reaction. |

## 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

**1-methoxy-2-propanol**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 107-98-2 | | | | |
| EINECS no. | 203-539-1 | | | | |
| Registration no. | 01-2119457435-35 | | | | |
| Concentration | >= | 50 | | | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | Flam. Liq. 3 | | H226 | | |
| | STOT SE 3 | | H336 | | Nervous system |

**ethyl acetate**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 141-78-6 | | | | |
| EINECS no. | 205-500-4 | | | | |
| Registration no. | 01-2119475103-46 | | | | |
| Concentration | >= | 1 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |

| | | | |
|---|---|---|---|
| Flam. Liq. 2 | H225 | | |
| Eye Irrit. 2 | H319 | | |
| 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-methylpropan-1-ol**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 78-83-1 | | | | |
| EINECS no. | 201-148-0 | | | | |
| Registration no. | 01-2119484609-23 | | | | |
| Concentration | >= | 1 | < | 3 | % |

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

| | | |
|---|---|---|
| Flam. Liq. 3 | H226 | |
| STOT SE 3 | H335 | Respiratory tract |
| Skin Irrit. 2 | H315 | |
| Eye Dam. 1 | H318 | |
| STOT SE 3 | H336 | Nervous system |

**Solvent Red 122**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 12227-55-3 | | | | |
| Concentration | >= | 0,3 | < | 1 | % |

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

| | |
|---|---|
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

**Solvent Yellow 82**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 85029-58-9 | | | | |
| EINECS no. | 285-083-3 | | | | |
| Registration no. | 01-2120756276-48 | | | | |
| Concentration | >= | 0,1 | < | 1 | % |

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

| | |
|---|---|
| Aquatic Chronic 2 | H411 |
| Skin Sens. 1B | H317 |

**cellulose nitrate < =12.6 % N**

| | |
|---|---|
| CAS No. | 9004-70-0 |

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

| | |
|---|---|
| Expl. 1.1 | H201 |

## Further ingredients

**(2-methoxymethylethoxy)propanol**

| | |
|---|---|
| CAS No. | 34590-94-8 |

EINECS no. 252-104-2
Registration no. 01-2119450011-60
Concentration >= 10 < 25 %
Advice: [3]
Classification (Regulation (EC) No. 1272/2008)
Not classified.

**ethanol**
CAS No. 64-17-5
EINECS no. 200-578-6
Registration no. 01-2119457610-43
Concentration >= 1 < 10 %
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 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, CO2, powders, water spray/mist

### Non suitable extinguishing media

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

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

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

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

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

### Other information

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

# 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.

# 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 no 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

### Other information

-

### Derived No/Minimal Effect Levels (DNEL/DMEL)

**1-methoxy-2-propanol**

| | | |
|---|---|---|
| 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 | 369 | mg/m³ |

| | | |
|---|---|---|
| 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 | 183 | 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 | 43,9 | mg/m³ |

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

| | | |
|---|---|---|
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 78 | 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 | 33 | mg/kg/d |

**(2-methoxymethylethoxy)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 | 65 | 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 | 310 | mg/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 15 | 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 | 37,2 | 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 | 1,67 | mg/kg/d |

**2-methylpropan-1-ol**

| | | |
|---|---|---|
| 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 | 310 | mg/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 55 | 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 | Local effects | |
| Concentration | 25 | mg/kg/d |

**ethyl acetate**

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

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 734 | mg/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 734 | 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 | Local effects | |
| Concentration | 1468 | 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 | 1468 | mg/m³ |

| | | |
|---|---|---|
| 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/m³ |

| | | |
|---|---|---|
| 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/m³ |

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

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 367 | mg/m³ |

**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/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 | Local effects | |
| Concentration | 600 | mg/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 300 | mg/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 300 | mg/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | 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/m³ |

| | | |
|---|---|---|
| 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/m³ |

| | | |
|---|---|---|
| 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/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 35,7 | mg/m³ |

**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/m³ |

| | | |
|---|---|---|
| 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/m³ |

| | | |
|---|---|---|
| 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/m³ |

| | | |
|---|---|---|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 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/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 | 87 | mg/kg/d |

## Predicted No Effect Concentration (PNEC)

### 1-methoxy-2-propanol

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 10 | mg/l |

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

| | | |
|---|---|---|
| Type of value | PNEC | |
| Conditions | sporadic release | |
| Concentration | 100 | mg/l |

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 52,3 | mg/kg |

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 5,2 | mg/kg |

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 4,59 | mg/kg |

### (2-methoxymethylethoxy)propanol

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 19 | mg/l |

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | marine water | |
| Concentration | 1,9 | mg/l |

| | | |
|---|---|---|
| Type of value | PNEC | |
| Conditions | sporadic release | |
| Concentration | 190 | mg/l |

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

| | | |
|---|---|---|
| Type | Sewage treatment plant (STP) | |
| Concentration | 4168 | mg/l |
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 70,2 | mg/kg |
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 7,02 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2,74 | mg/kg |

**2-methylpropan-1-ol**

| | | |
|---|---|---|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,4 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,04 | mg/l |
| Type of value | PNEC | |
| Conditions | sporadic release | |
| Concentration | 11 | mg/l |
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 1,52 | mg/kg |
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 0,152 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,0699 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 10 | 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 |

**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 |

**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 |

## 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 | >= | 0,7 | mm |
| Breakthrough time | >= | 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

| | | | | |
|---|---|---|---|---|
| **Form** | liquid | | | |
| **Colour** | coloured | | | |
| **Odour** | solvent-like | | | |
| **Odour threshold** | | | | |
| Remarks | not determined | | | |
| **pH value** | | | | |
| Remarks | not determined | | | |
| **Melting point** | | | | |
| Remarks | not determined | | | |
| **Freezing point** | | | | |
| Remarks | not determined | | | |
| **Initial boiling point and boiling range** | | | | |
| Remarks | not determined | | | |
| **Flash point** | | | | |
| Value | | 18 | | °C |
| **Evaporation rate** | | | | |
| Remarks | not determined | | | |
| **Flammability (solid, gas)** | | | | |
| not determined | | | | |
| **Upper/lower flammability or explosive limits** | | | | |
| Remarks | not determined | | | |
| **Vapour pressure** | | | | |
| Remarks | not determined | | | |
| **Vapour density** | | | | |
| Remarks | not determined | | | |
| **Density** | | | | |
| Value | appr. | 0,931 | | 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 | 20 | to | 100 | s |
| Temperature | 20 | °C | | |
| Method | DIN EN ISO 2431 - 3 mm | | | |

**Explosive properties**

| | |
|---|---|
| evaluation | not determined |

**Oxidising properties**

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

### 9.2. Other information

**Non-volatile content**

| | | |
|---|---|---|
| Value | 6,3 | % |
| 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.

### 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. |

### Skin corrosion/irritation (Components)

**2-methylpropan-1-ol**

| | | |
|---|---|---|
| Species | rabbit | |
| Duration of exposure | 8 | d |
| Observation Period | 24 | h |
| evaluation | Skin irritation | |
| Method | Value taken from the literature | |
| Source | 2 (reliable with restrictions) | |

### Serious eye damage/irritation

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

### Serious eye damage/irritation (Components)

**2-methylpropan-1-ol**

| | | |
|---|---|---|
| Species | rabbit | |
| Observation Period | 14 | d |
| evaluation | irritant - risk of serious damage to eyes | |
| Source | 1 (reliable without restriction) | |

**ethyl acetate**

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

### Sensitization

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

### Sensitization (Components)

**Solvent Yellow 82**

| | |
|---|---|
| Species | mouse |
| evaluation | May cause sensitization by skin contact. |
| Source | 1 (reliable without restriction) |

### Mutagenicity

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

### Reproductive toxicity

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

### Carcinogenicity

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

### Specific Target Organ Toxicity (STOT)

**Single exposure**

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

**Repeated exposure**

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

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

**1-methoxy-2-propanol**

**Specific target organ toxicity - single exposure**

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

**2-methylpropan-1-ol**

**Specific target organ toxicity - single exposure**

| | |
|---|---|
| | Organs: Respiratory tract |
| Remarks | May cause respiratory irritation. |

**2-methylpropan-1-ol**

**Specific target organ toxicity - single 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). |

**n-butyl acetate**

**Specific target organ toxicity - repeated exposure**

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

### Aspiration hazard

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

### 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.

#### Daphnia toxicity (Components)

**Solvent Yellow 82**

| | | |
|---|---|---|
| Species | Daphnia magna (Water flea) | |
| EC50 | 1 | mg/l |

| | | | |
|---|---|---|---|
| Duration of exposure | 2 | d | |

**Solvent Red 122**

| | | | |
|---|---|---|---|
| Species | Daphnia magna (Water flea) | | |
| EC50 | < 0,1 | | mg/l |
| Duration of exposure | 48 | h | |

## 12.2. Persistence and degradability

### General information

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

### Biodegradability (Components)

**Solvent Yellow 82**

| | | | |
|---|---|---|---|
| Value | < 10 | | % |
| Duration of test | 28 | d | |
| evaluation | Not readily biodegradable. | | |

## 12.3. Bioaccumulative potential

### General information

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

### Partition coefficient: n-octanol/water

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.
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.
Completely emptied packagings can be given for recycling.

## 14. Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|---|---|---|---|
| Tunnel restriction code | D/E | | |
| **14.1. UN number** | 1263 | 1263 | 1263 |
| **14.2. UN proper shipping name** | PAINT | PAINT | PAINT |
| **14.3. Transport hazard class(es)** | 3 | 3 | 3 |
| Label |  |  |  |
| **14.4. Packing group** | II | II | II |
| Special provision | 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) 93,3 % 867 g/l

### Other information

All components are contained in the TSCA inventory or exempted.

## 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. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

### CLP categories listed in Chapter 3

| | |
|---|---|
| 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 |
| Expl. 1.1 | Explosive, Division 1.1 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1B | Skin sensitization, Category 1B |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

### Abbreviations

Flam. Liq - Flammable liquids
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning theInternational 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 Econpmic 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)

### 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 |

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.
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.
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.

## Exposure estimation and reference to its source

**Workers (industrial)**

| | |
|---|---|
| PROC | PROC7 |
| Assessment method | inhalation, long-term - local and systemic |
| | Indoor use |
| Exposure assessment | 60,5 mg/m³ |
| 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/m³ |
| 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/m³ |
| 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/m³ |
| 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/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

**Workers (industrial)**

| | |
|---|---|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 46,93 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,13 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (industrial)**

| | |
|---|---|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 2,14 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,04 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (industrial)**

| | |
|---|---|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 187,71 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,51 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (industrial)**

| | |
|---|---|
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 5,49 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,11 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (industrial)**

| | |
|---|---|
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 187,71 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,51 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (industrial)**

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

| | |
|---|---|
| Exposure assessment | 13,71 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,27 |
| Lead substance | 1-methoxy-2-propanol |

**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/m³ |
| 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/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,075 |
| Lead substance | ethyl acetate |
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | Long-term inhalative |
| Exposure assessment | 0 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0 |
| Lead substance | 2-methylpropan-1-ol |
| SU | SU3 |
| PROC | PROC10 |
| Assessment method | Long-term inhalative |
| Exposure assessment | 15,44 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,0498 |

| | |
|---|---|
| Lead substance | 2-methylpropan-1-ol |
| SU | SU3 |
| PROC | PROC13 |
| Assessment method | Long-term inhalative |
| Exposure assessment | 15,44 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,0498 |
| Lead substance | 2-methylpropan-1-ol |

## Information on estimated exposure and downstream-user guidance

### Guidance for Downstream Users

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

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

### Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

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

## Contributing exposure scenario controlling environmental exposure

### Use

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

**Physical form** liquid

### Maximum amount used per time or activity

Emission days per site: <= 250

### Other relevant operational conditions

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

### Waste water

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

### Exhaust air

Keep container closed. Avoid release to the environment.

### Soil

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

### Disposal recommendations for the product

| | |
|---|---|
| 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.
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

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

Completely emptied packagings can be given for recycling.
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 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 | Long-term inhalative |
| Exposure assessment | 242 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,504 |
| Lead substance | n-butyl acetate |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 262,79 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,71 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 5,49 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |

| | |
|---|---|
| Risk characterisation ratio (RCR) | 0,11 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Exposure assessment | 37,54 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - systemic |
| | Indoor use |
| Exposure assessment | 2,14 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,04 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 131,4 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,36 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 21,43 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,42 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Exposure assessment | 262,79 mg/m³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,71 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

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

| | |
|---|---|
| | Indoor use |
| Exposure assessment | 13,71 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,27 |
| Lead substance | 1-methoxy-2-propanol |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 63 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,022 |
| Lead substance | ethyl acetate |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - local |
| Exposure assessment | 734 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,018 |
| Lead substance | ethyl acetate |

**Workers (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC11 |
| 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 (professional)**

| | |
|---|---|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - local |
| Exposure assessment | 734 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,018 |
| Lead substance | ethyl acetate |
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | Long-term inhalative |
| Exposure assessment | 185,25 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,5976 |
| Lead substance | 2-methylpropan-1-ol |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | Long-term inhalative |
| Exposure assessment | 256,1 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |

| | |
|---|---|
| Risk characterisation ratio (RCR) | 0,8261 |
| Lead substance | 2-methylpropan-1-ol |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | Long-term inhalative |
| Exposure assessment | 185,25 mg/m³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,5976 |
| Lead substance | 2-methylpropan-1-ol |

# 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.