

Trade name: Hesse CREATIVE-METALLIC, silk matt DB 46555-GD01

Version: 26 / GB

Revision: 25.11.2021

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Print date: 26.11.21

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

1.1. Product identifier

Hesse CREATIVE-METALLIC, silk matt DB 46555-GD01

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

Use of the substance/preparation

Surface treatment of wood and other materials

Identified Uses

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

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

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

2. Hazards identification

2.1. Classification of the substance or mixture

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

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

| | |
|-------------------|------|
| Flam. Liq. 2 | H225 |
| STOT SE 3 | H336 |
| Aquatic Chronic 2 | H411 |

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

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Hazard pictograms**Signal word**

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

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

contains ethyl acetate; n-butyl acetate; 2-methoxy-1-methylethyl acetate

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****n-butyl acetate**

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

2-methoxy-1-methylethyl acetate

| | | | | |
|--|------------------|------|--|---|
| CAS No. | 108-65-6 | | | |
| EINECS no. | 203-603-9 | | | |
| Registration no. | 01-2119475791-29 | | | |
| Concentration | >= 25 | < 50 | | % |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 3 | H226 | | |

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STOT SE 3 H336

copper metal powder

CAS No. 7440-50-8
 EINECS no. 231-159-6
 Registration no. 01-2119480154-42
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400
 Aquatic Chronic 3 H412

zinc powder — zinc dust (pyrophoric)

CAS No. 7440-66-6
 EINECS no. 231-175-3
 Registration no. 01-2119467174-37
 Concentration \geq 3 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

ethyl acetate

CAS No. 141-78-6
 EINECS no. 205-500-4
 Registration no. 01-2119475103-46
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 2 H225
 Eye Irrit. 2 H319
 STOT SE 3 H336 Nervous system
 EUH066

Further ingredients**ethanol**

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

Note

[3] Substance with occupational exposure limits

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.

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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.

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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

Exposure limit values

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2-methoxy-1-methylethyl acetate

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

2-methoxy-1-methylethyl acetate

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

ethyl acetate

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

ethyl acetate

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

n-butyl acetate

| | | | | |
|---------------------------|---------|-------------------|-----|--------|
| List | EH40 | | | |
| Value | 724 | mg/m ³ | 150 | ppm(V) |
| Short term exposure limit | 966 | mg/m ³ | 200 | ppm(V) |
| Status: | 01/2020 | | | |

n-butyl acetate

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

ethanol

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

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

ethyl acetate

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

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

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| | | |
|----------------------|--------------------------------|-------------------|
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 1468 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 1468 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 734 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 37 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 367 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |

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| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 4,5 | mg/kg/d |

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

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 ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| 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 ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| 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 ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| 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 ³ |

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

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| | | |
|----------------------|--------------------------------|-------------------|
| Concentration | 6 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 2 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 300 | mg/m ³ |
| 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 ³ |
| 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 ³ |
| 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 ³ |
| 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 ³ |
| 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) | |

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|---|--------------------------------|-------------------|
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 960 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Acute effects | |
| Concentration | 960 | mg/m ³ |
| 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 ³ |
| 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 |
| zinc powder — zinc dust (pyrophoric) | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 5 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 83 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |

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| | | |
|----------------|------------------|---------|
| Mode of action | Systemic effects | |
| Concentration | 0,83 | mg/kg/d |

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

2-methoxy-1-methylethyl acetate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 275 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 153,5 | mg/kg/d |

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

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 33 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 54,8 | mg/kg |

Predicted No Effect Concentration (PNEC)

ethyl acetate

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,026 | mg/l |

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

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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 |

zinc powder — zinc dust (pyrophoric)

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

2-methoxy-1-methylethyl acetate

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

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.

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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 | grey | | |
| Odour | solvent-like | | |
| Odour threshold | | | |
| 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 | -2 | | °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. 1,067 | | kg/l |
| Temperature | 20 | °C | |
| Solubility in water | | | |
| Remarks | not determined | | |
| Solubility(ies) | | | |
| Remarks | not determined | | |
| Partition coefficient: n-octanol/water | | | |
| Remarks | not determined | | |

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Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Efflux time

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

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

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

| | | |
|--------|------------------|---|
| Value | 26,6 | % |
| 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. |

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Acute oral toxicity (Components)**zinc powder — zinc dust (pyrophoric)**

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

Acute dermal toxicity

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

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**zinc powder — zinc dust (pyrophoric)**

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**zinc powder — zinc dust (pyrophoric)**

| | |
|------------|--------------------|
| evaluation | No skin irritation |
|------------|--------------------|

Serious eye damage/irritation

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

Serious eye damage/irritation (Components)**ethyl acetate**

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

zinc powder — zinc dust (pyrophoric)

| | |
|------------|-------------------|
| evaluation | No eye irritation |
|------------|-------------------|

Sensitization

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

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

| | |
|------------|-------------------------------|
| evaluation | No sensitizing effects known. |
|------------|-------------------------------|

Mutagenicity

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

Reproductive toxicity

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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)

ethyl acetate

Specific target organ toxicity - single exposure

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

n-butyl acetate

Specific target organ toxicity - repeated exposure

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

2-methoxy-1-methylethyl acetate

Specific target organ toxicity - repeated exposure

evaluation May cause drowsiness or dizziness.
Organs: Nervous system

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.

Fish toxicity (Components)

zinc powder — zinc dust (pyrophoric)

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

zinc powder — zinc dust (pyrophoric)

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

Daphnia toxicity (Components)

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zinc powder — zinc dust (pyrophoric)

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

zinc powder — zinc dust (pyrophoric)

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

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.

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 |

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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

| | 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 (zinc powder — zinc dust (pyrophoric)) | 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 | | |
| 14.5. Environmental hazards |  ENVIRONMENTALLY HAZARDOUS |  ENVIRONMENTALLY HAZARDOUS |  ENVIRONMENTALLY HAZARDOUS |

15. Regulatory information

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

VOC

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VOC (EU) 72,9 % 778 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. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

CLP categories listed in Chapter 3

| | |
|-------------------|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| 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.

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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.

modified product

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

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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**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.

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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/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,126 |
| Lead substance | n-butyl acetate |

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

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

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

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

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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 |
| | 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 |

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containing organic solvents or other dangerous substances

Dried residues

EWC waste code

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

Disposal recommendations for packaging

EWC waste code

150110 - packaging containing residues of or contaminated by dangerous substances

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)**Short title of the exposure scenario**

Substance number:CES006

Use

SU22

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PROC11

Non industrial spraying

Physical form

liquid

Maximum amount used per time or activity

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

Other relevant operational conditions

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

Product substance and product safety related measures

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

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol.

Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7

Breakthrough time >= 30

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

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

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 55,08 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,2 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 13,71 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,09 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|-----------------------------------|--|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 137,71 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 2-methoxy-1-methylethyl acetate |

Workers (professional)

| | |
|------------------------------|--|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - local and systemic |
| Exposure assessment | 27,43 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |

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| | |
|-----------------------------------|--|
| Risk characterisation ratio (RCR) | 0,18 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - local and systemic |
| | Indoor use |
| Exposure assessment | 27,54 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - local and systemic |
| | Indoor use |
| Exposure assessment | 2,14 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,01 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - local and systemic |
| | Outdoor use |
| Exposure assessment | 55,08 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,2 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - local and systemic |
| | Outdoor use |
| Exposure assessment | 107,14 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,7 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| SU | SU21 |
| Assessment method | dermal, long-term - systemic |
| | Indoor use |
| Exposure assessment | 6 mg/kg/d |
| Exposure assessment (method) | ConsExpo v4.1 |
| Risk characterisation ratio (RCR) | 0,11 |
| Lead substance | 2-methoxy-1-methylethyl acetate |
| SU | SU21 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Exposure assessment | 6,83 mg/m ³ |
| Exposure assessment (method) | ConsExpo v4.1 |
| Risk characterisation ratio (RCR) | 0,6 |

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Lead substance

2-methoxy-1-methylethyl acetate

Information on estimated exposure and downstream-user guidance

Guidance for Downstream Users

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