

Trade name: Hesse FABULAC , silk matt PEX HUB 85585-F

Version: 11 / WORLD

Revision: 11.10.2025

Replaces Version: 10 / WORLD

Print date: 07.11.25

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

1.1. Product identifier

Hesse FABULAC , silk matt PEX HUB 85585-F

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 |

1.3. Details of the supplier of the safety data sheet

Manufacturer

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

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Skin Sens. 1A H317

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

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Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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

contains phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; 2-propenoic acid, reaction products with dipentaerythritol; 2-methyl-2H-isothiazol-3-one; 1,2-benzisothiazol-3(2H)-one

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Hazardous ingredients

2-butoxyethanol

| | | | | |
|--|--------------------------------|-------|-------|----------------------------------|
| CAS No. | 111-76-2 | | | |
| EINECS no. | 203-905-0 | | | |
| Registration no. | 01-2119475108-36 | | | |
| Concentration | >= 1 | < 5 | | % |
| Classification (Regulation (EC) No. 1272/2008) | Acute Tox. 4 | H302 | | |
| | Eye Irrit. 2 | H319 | | |
| | Skin Irrit. 2 | H315 | | |
| | Acute Tox. 3 | H331 | | |
| ATE | Oral exposure | 1.200 | mg/kg | |
| cATpE | Inhalation exposure, Dust/Mist | 0,5 | mg/l | |
| | | | | Route of exposure: Oral exposure |

2-propenoic acid, reaction products with dipentaerythritol

| | | | | |
|--|-------------------|------|--|---|
| CAS No. | 1384855-91-7 | | | |
| Registration no. | 01-2119980666-22 | | | |
| Concentration | >= 1 | < 4 | | % |
| Classification (Regulation (EC) No. 1272/2008) | Eye Irrit. 2 | H319 | | |
| | Skin Sens. 1A | H317 | | |
| | Aquatic Chronic 3 | H412 | | |

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

| | | | | |
|------------------|------------------|-----|--|---|
| CAS No. | 162881-26-7 | | | |
| EINECS no. | 423-340-5 | | | |
| Registration no. | 01-2119489401-38 | | | |
| Concentration | >= 0,1 | < 1 | | % |

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

| | |
|-------------------|------|
| Skin Sens. 1A | H317 |
| Aquatic Chronic 4 | H413 |

Triethylamine (neutralized form)

CAS No. 121-44-8

EINECS no. 204-469-4

Registration no. 01-2119475467-26

Concentration $\geq 0,1$ < 0,9 %

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

| | |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Acute Tox. 3 | H331 |

Route of exposure: Inhalation
exposure

| | |
|---------------|------|
| Acute Tox. 3 | H311 |
| Acute Tox. 3 | H301 |
| Skin Corr. 1A | H314 |
| STOT SE 3 | H335 |
| Eye Dam. 1 | H318 |

Route of exposure: Dermal exposure

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3 H335 ≥ 1 %

ATE Oral exposure 100 mg/kg

ATE Dermal exposure 300 mg/kg

cATpE Inhalation exposure, Dust/Mist 0,5 mg/l

1,2-benzisothiazol-3(2H)-one

CAS No. 2634-33-5

EINECS no. 220-120-9

Registration no. 01-2120761540-60

Concentration < 0,036 %

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

| | |
|-------------------|------|
| Acute Tox. 4 | H302 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1 | H317 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| Acute Tox. 2 | H330 |

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317 $\geq 0,036$ %

2-methyl-2H-isothiazol-3-one

CAS No. 2682-20-4

EINECS no. 220-239-6

Registration no. 01-2120764690-50

Concentration < 0,0015 %

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

| | |
|--------------|------|
| Acute Tox. 3 | H301 |
| Acute Tox. 2 | H330 |

Route of exposure: Inhalation
exposure

| | |
|-------------------|------|
| Skin Corr. 1B | H314 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

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| | |
|---------------|------|
| Skin Sens. 1A | H317 |
| Acute Tox. 3 | H311 |
| Eye Dam. 1 | H318 |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|-----------------|------|-------------|
| Aquatic Acute 1 | H400 | M = 10 |
| Skin Sens. 1A | H317 | >= 0,0015 % |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

CAS No. 55965-84-9

Concentration < 0,001 %

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

| | |
|-------------------|------|
| Acute Tox. 2 | H330 |
| Acute Tox. 2 | H310 |
| Acute Tox. 3 | H301 |
| Skin Corr. 1B | H314 |
| Skin Sens. 1 | H317 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| Eye Dam. 1 | H318 |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|-------------------|------|-------------|
| Skin Corr. 1C | H314 | >= 0,6 % |
| Skin Irrit. 2 | H315 | >= 0,06 % |
| Eye Irrit. 2 | H319 | >= 0,06 % |
| Skin Sens. 1 | H317 | >= 0,0015 % |
| Eye Dam. 1 | H318 | >= 0,6 % |
| Aquatic Chronic 1 | H410 | M = 100 |
| Aquatic Acute 1 | H400 | M = 100 |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accidental skin or eye contact, avoid exposure to ultra-violet light. Get medical advice/attention if you feel unwell. 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

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Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

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

Hints for the physician / treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, 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.

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale vapours. Do not inhale gases. Do not inhale mist.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed and dry in a cool, well-ventilated place. 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.

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Advice on protection against fire and explosion

Fight fire with normal precautions from a reasonable distance.

7.2. Conditions for safe storage, including any incompatibilities

Storage stability

Protect from frost.

Requirements for storage rooms and vessels

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 10 Flammable liquids

Further information on storage conditions

Keep away from heat. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Other information

-

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

2-butoxyethanol

| | | |
|----------------------|--------------------------------|-------|
| 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 | Acute effects | |
| Concentration | 89 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 246 | 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 | 75 | mg/kg/d |

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

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| | | |
|----------------------|--------------------------------|-------------------|
| Mode of action | Systemic effects | |
| Concentration | 20 | ppm |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 89 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 246 | 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 | 1091 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 3,2 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 13,4 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 123 | 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 | Acute effects | |
| Concentration | 44,5 | mg/kg |
| Type of value | Derived No Effect Level (DNEL) | |



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| | | |
|----------------------|--------------------------------|-------------------|
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Acute effects | |
| Concentration | 426 | 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 | 6,3 | mg/kg |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 106,4 | 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 | 38 | mg/kg |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 59 | 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 | 49 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 26,7 | 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 | |

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| | | |
|---------------|-----|-------------------|
| Concentration | 135 | 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 | 147 | mg/m ³ |
|---------------|-----|-------------------|

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

| | |
|-----------------|----------|
| Reference group | Consumer |
|-----------------|----------|

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

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

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

| | | |
|---------------|----|---------|
| Concentration | 89 | mg/kg/d |
|---------------|----|---------|

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

| | |
|---------------|--------------------------------|
| 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 | 21 | 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 | 21 | mg/m ³ |
|---------------|----|-------------------|

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

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

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

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

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

| | | |
|---------------|----|-------------------|
| Concentration | 21 | 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 | 21 | 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 | 3,3 | mg/kg/d |
|---------------|-----|---------|

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



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| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 3,3 | mg/kg/d |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Short-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 3,3 | mg/kg/d |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Short-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 3,3 | 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 | 5,2 | 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 | 1,5 | 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 | 1,5 | mg/kg/d |

Triethylamine (neutralized form)

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 8,4 | mg/m ³ |

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

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| | | |
|----------------|---------------|-------------------|
| Mode of action | Local effects | |
| Concentration | 8,4 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 12,6 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 12,6 | 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 | 12,1 | mg/kg/d |

2-propenoic acid, reaction products with dipentaerythritol

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 1,76 | 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 | 0,50 | mg/kg |

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H
-isothiazol-3- one [EC no. 220-239-6] (3:1)**

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 0,02 | mg/m ³ |

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



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Concentration 0,09 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 0,02 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 0,04 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Short-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 0,11 mg/kg/d

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 0,04 mg/m³

1,2-benzisothiazol-3(2H)-one

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 6,81 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 0,966 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 1,2 mg/m³

Type of value Derived No Effect Level (DNEL)

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| | | |
|----------------------|------------------|-------|
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 0,345 | mg/kg |

2-methyl-2H-isothiazol-3-one

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 0,021 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 0,043 | 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 | 0,021 | 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 | 0,043 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 0,027 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 0,053 | mg/m ³ |

Predicted No Effect Concentration (PNEC) ***

2-butoxyethanol

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

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| | | |
|---------------|------------------------------|-------|
| Type | Freshwater | |
| Concentration | 8,8 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,88 | mg/l |
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 3,46 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 463 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2,33 | mg/kg |

Triethylamine (neutralized form)

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,11 | mg/l |
| Type of value | PNEC | |
| Type | marine water | |
| Concentration | 0,011 | mg/l |
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 1,575 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,25 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 100 | mg/l |
| Type of value | PNEC | |
| Conditions | sporadic release | |
| Concentration | 0,08 | mg/l |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,158 | mg/kg |

2-propenoic acid, reaction products with dipentaerythritol

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,013 | mg/l |

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| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,0013 | mg/l |
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 2,8 | mg/kg |
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 0,28 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 10 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,55 | mg/kg |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 3,39 | µg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 0,23 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,027 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,027 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,01 | mg/kg |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 3,39 | µg/l |

1,2-benzisothiazol-3(2H)-one

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 4,03 | µg/l |
| Type of value | PNEC | |
| Type | Saltwater | |

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| | | |
|---------------|------------------------------|-------|
| Concentration | 0,403 | µg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 1,03 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,0499 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,00499 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 3 | mg/kg |

2-methyl-2H-isothiazol-3-one

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 3,39 | µg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 3,39 | µg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 023 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,047 | 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

| | |
|----------------------|--------------|
| Glove material | |
| Appropriate Material | butyl-rubber |
| Material thickness | >= 0,5 mm |
| Breakthrough time | >= 120 min |

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

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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.

Body protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

Colour coloured

Odour characteristic

Melting point

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Value 100 to 173 °C

Flammability

not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 60 °C

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value 8

Concentration/H₂O 100

Remarks Not applicable

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

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Vapour pressure

Remarks not determined

Density and/or relative density

| | | | | |
|-------------|-------------|----|--|------|
| Value | appr. 1,083 | | | kg/l |
| Temperature | 20 | °C | | |

Relative vapour density

Remarks not determined

Particle characteristics

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate

Remarks not determined

Solubility in water

Remarks not determined

Efflux time

| | | | | |
|-------------|------------------|----|----|---|
| Value | 30 | to | 35 | s |
| Temperature | 20 | °C | | |
| Method | DIN 53211 - 6 mm | | | |

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

| | | | | |
|--------|------------------|----|----|---|
| Value | 36 | to | 44 | % |
| Method | calculated value | | | |

Solids content

| | | | | |
|-------|----|----|----|---|
| Value | 36 | to | 44 | % |
|-------|----|----|----|---|

Other information

This information is not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

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Keep away from free radical initiators, peroxides, strong alkalis or reactive metals.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO_x), dense black smoke, No decomposition if used as prescribed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

| | | | |
|--------|--|--------|-------|
| ATE | > | 10.000 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |

Acute oral toxicity (Components)

2-butoxyethanol

| | | |
|-----|------|-------|
| ATE | 1200 | mg/kg |
|-----|------|-------|

Triethylamine (neutralized form)

| | | |
|--------|------------------------------|-------|
| ATE | 100 | mg/kg |
| Source | Annex VI Hazardous Substance | |

2-methyl-2H-isothiazol-3-one

| | | |
|---------|----------------------------------|-------|
| Species | rat | |
| LD50 | 120 | mg/kg |
| Method | EPA | |
| Source | 1 (reliable without restriction) | |

1,2-benzisothiazol-3(2H)-one

| | | |
|---------|------------------------------|-------|
| Species | rat | |
| LD50 | 450 | mg/kg |
| Source | Annex VI Hazardous Substance | |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | |
|-----|----|-------|
| ATE | 53 | mg/kg |
|-----|----|-------|

Acute dermal toxicity

| | | | |
|--------|--|--------|-------|
| ATE | > | 10.000 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |

Acute dermal toxicity (Components)

Triethylamine (neutralized form)

| | | |
|--------|------------------------------|-------|
| ATE | 300 | mg/kg |
| Source | Annex VI Hazardous Substance | |

2-methyl-2H-isothiazol-3-one

| | | |
|---------|----------------------------------|-------|
| Species | rat | |
| LD50 | 242 | mg/kg |
| Source | 1 (reliable without restriction) | |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | |
|--------|------------|-------|
| ATE | 50 | mg/kg |
| Method | conversion | |

Acute inhalational toxicity

| | | |
|---------------------|--|------|
| ATE | 15,3185 | mg/l |
| Administration/Form | Dust/Mist | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | |

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

Acute inhalative toxicity (Components)

2-butoxyethanol

| | | | |
|----------------------|------------------------------|---|------|
| ATE | 3 | | mg/l |
| Duration of exposure | 4 | h | |
| Administration/Form | Vapors | | |
| Source | Annex VI Hazardous Substance | | |

Triethylamine (neutralized form)

| | | | |
|----------------------|------------------------------|---|------|
| ATE | 7,2 | | mg/l |
| Duration of exposure | 4 | h | |
| Administration/Form | Vapors | | |
| Source | Annex VI Hazardous Substance | | |

2-methyl-2H-isothiazol-3-one

| | | | |
|----------------------|----------------------------------|---|------|
| Species | rat | | |
| LC50 | 0,1 | | mg/l |
| Duration of exposure | 4 | h | |
| Administration/Form | Dust/Mist | | |
| Source | 1 (reliable without restriction) | | |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | | |
|----------------------|------------------|---|------|
| ATE | 0,05 | | mg/l |
| Duration of exposure | 4 | h | |
| Administration/Form | Dust/Mist | | |
| Method | conversion value | | |
| 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)

2-butoxyethanol

| | | | |
|----------------------|---|---|--|
| Species | rabbit | | |
| Duration of exposure | 4 | h | |
| Observation Period | 28 | d | |
| evaluation | Irritating to skin and mucous membranes | | |
| Method | EEC 84/449, B.4 | | |

Triethylamine (neutralized form)

| | |
|------------|---------------|
| evaluation | Causes burns. |
|------------|---------------|

2-methyl-2H-isothiazol-3-one

| | |
|------------|---------------|
| evaluation | Causes burns. |
|------------|---------------|

1,2-benzisothiazol-3(2H)-one

| | |
|------------|---------------------|
| evaluation | Irritating to skin. |
|------------|---------------------|

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | |
|------------|------------------------|
| Species | rabbit |
| evaluation | Severe 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. |

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Serious eye damage/irritation (Components)

2-butoxyethanol

| | | | |
|----------------------|----------------------------------|---|--|
| Species | rabbit | | |
| Duration of exposure | 24 | h | |
| Observation Period | 21 | d | |
| evaluation | Eye irritation | | |
| Source | 1 (reliable without restriction) | | |

2-methyl-2H-isothiazol-3-one

evaluation Causes severe caustic burns to skin and eyes.

1,2-benzisothiazol-3(2H)-one

evaluation Irritating to eyes.

2-propenoic acid, reaction products with dipentaerythritol

| | | | |
|--------------------|---------------------|---|--|
| Species | rabbit | | |
| Observation Period | 14 | d | |
| evaluation | Irritating to eyes. | | |

Sensitization

| | |
|------------|--|
| evaluation | May cause sensitization by skin contact. |
| Method | Calculation method (Regulation (EC) No. 1272/2008) |
| Remarks | The classification criteria are met. |

Sensitization (Components)

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

| | |
|---------|--|
| Species | guinea pig |
| Method | OECD Test Guideline 406 |
| Remarks | May cause sensitisation by skin contact. |

2-methyl-2H-isothiazol-3-one

evaluation May cause sensitization by skin contact.

1,2-benzisothiazol-3(2H)-one

| | |
|---------------------|--|
| Reference substance | 1,2-benzisothiazol-3(2H)-one |
| evaluation | May cause sensitization by skin contact. |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | |
|------------|--------------------------------------|
| Species | guinea pig |
| evaluation | Causes sensitisation on guinea-pigs. |

2-propenoic acid, reaction products with dipentaerythritol

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

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

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

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

Specific Target Organ Toxicity (STOT) (Components)

Triethylamine (neutralized form)

Specific target organ toxicity - single exposure
Remarks Organs: Respiratory tract
May cause respiratory irritation.

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

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

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

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

Fish toxicity (Components)

1,2-benzisothiazol-3(2H)-one

| | | |
|----------------------|-------------------------------------|------|
| Species | Oncorhynchus mykiss (rainbow trout) | |
| LC50 | 2,18 | mg/l |
| Duration of exposure | 96 | h |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | |
|----------------------|-------------------------------------|------|
| Species | Oncorhynchus mykiss (rainbow trout) | |
| LC50 | 0,19 | mg/l |
| Duration of exposure | 96 | h |

Daphnia toxicity (Components)

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

| | | |
|----------------------|----------------------------|-------------|
| Species | Daphnia magna (Water flea) | |
| EC50 | 10 | to 100 mg/l |
| Duration of exposure | 48 | h |

2-methyl-2H-isothiazol-3-one

| | | |
|----------------------|----------------------------|------|
| Species | Daphnia magna (Water flea) | |
| NOEC | 0,044 | mg/l |
| Duration of exposure | 21 | d |

1,2-benzisothiazol-3(2H)-one

| | | |
|----------------------|----------------------------|------|
| Species | Daphnia magna (Water flea) | |
| EC50 | 2,94 | mg/l |
| Duration of exposure | 48 | h |

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reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | | |
|----------------------|----------------------------|---|------|
| Species | Daphnia magna (Water flea) | | |
| EC50 | 0,16 | | mg/l |
| Duration of exposure | 48 | h | |

2-propenoic acid, reaction products with dipentaerythritol

| | | | |
|----------------------|----------------------------|---|------|
| Species | Daphnia magna (Water flea) | | |
| EC50 | 18 | | mg/l |
| Duration of exposure | 48 | h | |

Algae toxicity (Components)

2-methyl-2H-isothiazol-3-one

| | | | |
|----------------------|-------|---|------|
| EC50 | 0,157 | | mg/l |
| Duration of exposure | 96 | h | |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | | |
|----------------------|---|---|------|
| Species | Scenedesmus capricornutum (fresh water algae) | | |
| EC50 | 0,018 | | mg/l |
| Duration of exposure | 72 | h | |

Bacteria toxicity (Components)

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | | |
|---------|------------------|--|------|
| Species | activated sludge | | |
| EC50 | 4,5 | | mg/l |

12.2. Persistence and degradability

General information

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

Biodegradability (Components)

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

| | | | |
|------------------|----------------------------|---|---|
| Value | 1 | | % |
| Duration of test | 28 | d | |
| evaluation | Not readily biodegradable. | | |

1,2-benzisothiazol-3(2H)-one

| | | | |
|------------|----------------------------|--|--|
| evaluation | Not readily biodegradable. | | |
|------------|----------------------------|--|--|

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

| | | | |
|------------|----------------------------|--|--|
| evaluation | Not readily biodegradable. | | |
|------------|----------------------------|--|--|

12.3. Bioaccumulative potential

General information

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

Partition coefficient n-octanol/water (log value)

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

Octanol/water partition coefficient (log Pow) (Components)

Triethylamine (neutralized form)

| | | |
|---------|----|------|
| log Pow | to | 1,45 |
|---------|----|------|

2-methyl-2H-isothiazol-3-one

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log Pow -0,486
Temperature 20 °C

12.4. Mobility in soil

General information

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

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

General information

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

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

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

12.7. Other adverse effects

General information

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

General information / ecology

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|-----------------|--|--|--|
| 14.1. UN number | Not classified as dangerous in the meaning of transport regulations. | Not classified as dangerous in the meaning of sea and air transport regulations. | Not a dangerous substance as defined in the above regulations. |

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

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Other information

14.7. Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information ***

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

VOC

VOC (EU) 4,9 % 55 g/l

Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3.

Ingredients with restrictions according to Annex XVII Regulation (EU) No. 1907/2006 ***

2-methyl-2H-isothiazol-3-one

Entry No. 75 (*)

(*) Conditions of restriction see Annex XVII Regulation (EU) No. 1907/2006 (REACH)

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| 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. |
| H413 | May cause long lasting harmful effects to aquatic life. |

CLP categories listed in Chapter 3

| | |
|-------------------|---|
| Acute Tox. 2 | Acute toxicity, Category 2 |
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Acute Tox. 4 | Acute toxicity, Category 4 |
| 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 |

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| | |
|-------------------|--|
| Aquatic Chronic 4 | Hazardous to the aquatic environment, chronic, Category 4 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Skin Corr. 1A | Skin corrosion, Category 1A |
| Skin Corr. 1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1A | Skin sensitization, Category 1A |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

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

ES017 - 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.

Curing takes place through UV light exposure (only with UV light curing systems).

Where possible recycling is preferred to disposal or incineration.

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

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Dispose of rinse water in accordance with local and national regulations.

Waste water

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

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

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

Disposal recommendations for packaging

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.
Curing takes place through UV light exposure (only with UV light curing systems).
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

| | |
|----------------------|--------------|
| Glove material | |
| Appropriate Material | butyl-rubber |
| Material thickness | >= 0,5 |
| Breakthrough time | >= 120 |

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.

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)

| | |
|-----------------------------------|----------------------------------|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 42 mg/m ³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,428571 |
| Lead substance | 2-butoxyethanol |

Workers (industrial)

| | |
|-----------------------------------|------------------------------|
| PROC | PROC7 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 8,5714 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,068571 |
| Lead substance | 2-butoxyethanol |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 55 mg/m ³ |
| Exposure assessment (method) | EASY TRA v3.5 |
| Risk characterisation ratio (RCR) | 0,561224 |
| Lead substance | 2-butoxyethanol |

Workers (industrial)

| | |
|-----------------------------------|------------------------------|
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 5,4857 mg/kg/d |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,043886 |
| Lead substance | 2-butoxyethanol |

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 49,2393 mg/m ³ |
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,502441 |
| Lead substance | 2-butoxyethanol |

Workers (industrial)

| | |
|------------------------------|------------------------------|
| PROC | PROC13 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 2,7429 mg/kg/d |
| Exposure assessment (method) | EASY TRA v3.5 |



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Risk characterisation ratio (RCR)

0,021943

Lead substance

2-butoxyethanol

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.