

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

1.1. Product identifier

Hesse PU Spatter effect PEX DB 594-FT

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

Use of the substance/preparation

Surface treatment of wood and other materials

Identified Uses

| | |
|--------|--------------------------------------------------------------------------------------------------|
| | REACHSET 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 |

| | |
|--------|--------------------------------------------------------------------------------------------------|
| | REACHSET 2003 |
| 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 |
| PROC10 | Roller application or brushing |

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
Testphrase

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 2 H225
STOT SE 3 H336

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

2.2. Label elements

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

contains n-butyl acetate; 2-methoxy-1-methylethyl acetate; isobutyl acetate; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EUH208 Contains 12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide, 4-morpholinecarbaldehyde, May produce an allergic reaction.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Further supplemental information

Young persons under 18 years may not work with this product.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Hazardous ingredients

n-butyl acetate

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

2-methoxy-1-methylethyl acetate

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

isobutyl acetate

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

Hydrocarbons, C9, aromatics

CAS No. 128601-23-0
EINECS no. 918-668-5
Registration no. 01-2119455851-35
Concentration ≥ 1 < 3 %
Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 3 H226
Asp. Tox. 1 H304
Aquatic Chronic 2 H411
STOT SE 3 H335 Respiratory tract
STOT SE 3 H336 Nervous system
EUH066

xylene

CAS No. 1330-20-7
EINECS no. 215-535-7
Registration no. 01-2119488216-32
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 3 H226
Acute Tox. 4 H332 Route of exposure: Inhalation exposure
Acute Tox. 4 H312 Route of exposure: Dermal exposure
Skin Irrit. 2 H315
Asp. Tox. 1 H304
STOT SE 3 H335 Respiratory tract; Route of exposure: inhalative
Eye Irrit. 2 H319

ATE Dermal exposure 2.000 mg/kg
ATE Inhalation exposure, Dust/Mist 5 mg/l

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | | | |
|------------------------------------------------|------------------|--------|----------------|
| CAS No. | 64742-48-9 | | |
| EINECS no. | 919-857-5 | | |
| Registration no. | 01-2119463258-33 | | |
| Concentration | >= 1 | < 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Flam. Liq. 3 | H226 | |
| | Asp. Tox. 1 | H304 | |
| | STOT SE 3 | H336 | Nervous system |
| | | EUH066 | |

4-morpholinecarbaldehyde

| | | | |
|------------------------------------------------|------------------|------|---|
| CAS No. | 4394-85-8 | | |
| EINECS no. | 224-518-3 | | |
| Registration no. | 01-2119987993-12 | | |
| Concentration | >= 0,1 | < 1 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Skin Sens. 1B | H317 | |

12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide

| | | | |
|------------------------------------------------|-------------------|------|---|
| EINECS no. | 434-430-9 | | |
| Registration no. | 01-0000018057-71 | | |
| Concentration | >= 0,1 | < 1 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | |
| | Skin Sens. 1 | H317 | |
| | Aquatic Chronic 4 | H413 | |

cellulose nitrate < =12.6 % N

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

Note

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

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

After skin contact

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

After eye contact

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

After ingestion

Do not induce vomiting. Take medical treatment.

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

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

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

Hints for the physician / treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-methoxy-1-methylethyl acetate

| | | | | |
|-----------------------------------------------------|---------|-------------------|----|--------|
| List | GV (DK) | | | |
| Value | 275 | mg/m ³ | 50 | ppm(V) |
| Skin resorption / sensitisation: H; Status: 11/2021 | | | | |

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 | | | | |

n-butyl acetate

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | | | | |
|-----------------|---------|-------------------|----|--------|
| List | GV (DK) | | | |
| Value | 241 | mg/m ³ | 50 | ppm(V) |
| Status: 11/2021 | | | | |

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 | | | | |

xylene

| | | | | |
|-------------------------------------------------------|---------|-------------------|----|--------|
| List | GV (DK) | | | |
| Value | 109 | mg/m ³ | 25 | ppm(V) |
| Skin resorption / sensibilisation: H; Status: 11/2021 | | | | |

xylene

| | | | | |
|-------------------------------------------------------|-----------------------|-------------------|-----|--------|
| List | Directive 2017/164 EG | | | |
| Value | 221 | mg/m ³ | 50 | ppm(V) |
| Short term exposure limit | 442 | mg/m ³ | 100 | ppm(V) |
| Skin resorption / sensibilisation: H; Status: 12/2009 | | | | |

isobutyl acetate

| | | | | |
|-----------------|---------|-------------------|----|--------|
| List | GV (DK) | | | |
| Value | 241 | mg/m ³ | 50 | ppm(V) |
| Status: 11/2021 | | | | |

isobutyl 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 | | | | |

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

2-methoxy-1-methylethyl acetate

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

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 | |



Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

xylene

| | | |
|----------------------|--------------------------------|-------|
| 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 | 125 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 212 | 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 | 65,3 | 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 | 260 | 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 | 174 | 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 | 442 | mg/m ³ |

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | | |
|----------------------|------------------|-------------------|
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 221 | 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 | 289 | 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 | 289 | 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 | 12,5 | 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 | Local effects | |
| Concentration | 174 | mg/kg/d |

Hydrocarbons, C9, aromatics

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

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 25 | mg/kg |

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

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

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

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

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

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

| | | |
|---------------|-----|-------|
| Concentration | 150 | mg/kg |
|---------------|-----|-------|

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

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

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

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

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

| | | |
|---------------|----|-------|
| Concentration | 32 | mg/kg |
|---------------|----|-------|

4-morpholinecarbaldehyde

| | |
|---------------|--------------------------------|
| 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 | Local effects |
|----------------|---------------|

| | | |
|---------------|-------|--------------------|
| Concentration | 0,293 | mg/cm ² |
|---------------|-------|--------------------|

| | |
|---------------|--------------------------------|
| 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 | 98 | g/cm 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 | 8 | 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 | 29 | 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 | 8 | mg/kg |
|---------------|---|-------|

isobutyl acetate

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

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

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

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Concentration | 125 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Concentration | 208 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Concentration | 125 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (professional) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Concentration | 871 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Concentration | 185 | mg/kg |

Predicted No Effect Concentration (PNEC)

2-methoxy-1-methylethyl acetate

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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



Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | | |
|---------------|--------|-------|
| Type | Soil | |
| Concentration | 0,0903 | mg/kg |

xylene

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,327 | mg/l |

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,327 | mg/l |

| | | |
|---------------|----------------------|-------|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 12,46 | mg/kg |

| | | |
|---------------|--------------------|-------|
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 12,46 | mg/kg |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2,31 | mg/kg |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 6,58 | mg/l |

4-morpholinecarbaldehyde

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,5 | mg/l |

| | | |
|---------------|--------------|------|
| Type of value | PNEC | |
| Type | marine water | |
| Concentration | 0,05 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 2000 | mg/l |

| | | |
|---------------|----------------------|-------|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 1,85 | mg/kg |

| | | |
|---------------|--------------------|-------|
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 0,0764 | mg/kg |

isobutyl acetate

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | | |
|---------------|------------------------------|-------|
| Concentration | 0,17 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,017 | mg/l |
| Type of value | PNEC | |
| Type | Water | |
| Conditions | sporadic release | |
| Concentration | 0,34 | mg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 200 | mg/l |
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 0,877 | mg/kg |
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 0,0877 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,0755 | mg/kg |

8.2. Exposure controls

Exposure controls

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

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

Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness \geq 0,7 mm

Breakthrough time \geq 30 min

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

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

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

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

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------------------------------------------|------------------|
| Physical state | liquid |
| Colour | coloured |
| Odour | solvent-like |
| Melting point | |
| Remarks | not determined |
| Freezing point | |
| Remarks | not determined |
| Boiling point or initial boiling point and boiling range | |
| Value | 82 to 200 °C |
| Flammability | |
| not determined | |
| Upper and lower explosive limits | |
| Remarks | not determined |
| Flash point | |
| Value | < 21 °C |
| Ignition temperature | |
| Remarks | not determined |
| Decomposition temperature | |
| Remarks | not determined |
| Viscosity | |
| Remarks | not determined |
| Solubility(ies) | |
| Remarks | not determined |
| Partition coefficient n-octanol/water (log value) | |
| Remarks | not determined |
| Vapour pressure | |
| Remarks | not determined |
| Density and/or relative density | |
| Value | appr. 1,017 kg/l |
| Temperature | 20 °C |
| Relative vapour density | |
| Remarks | not determined |
| Particle characteristics | |

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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 49 to 61 s
Temperature 20 °C
Method DIN 53211 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

Value 36 %

Other information

This information is not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO_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

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

Acute dermal toxicity

| | | | |
|---------|-------------------------------------------------------------------|--------|-------|
| ATE | > | 10.000 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |
| Remarks | Based on available data, the classification criteria are not met. | | |

Acute dermal toxicity (Components)

xylene

| | | |
|--------|----------------------------|-------|
| ATE | 2000 | mg/kg |
| Source | alle Daten über 2000 mg/kg | |

Acute inhalational toxicity

| | | | |
|---------------------|-------------------------------------------------------------------|----|------|
| ATE | > | 20 | mg/l |
| Administration/Form | Dust/Mist | | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | |
| Remarks | Based on available data, the classification criteria are not met. | | |

Acute inhalative toxicity (Components)

xylene

| | | |
|----------------------|------------------------|------|
| ATE | 5 | mg/l |
| Duration of exposure | 4 | h |
| Administration/Form | Dust/Mist | |
| Source | alle Werte über 5 mg/l | |

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)

xylene

| | |
|--------------------|--------------------------------|
| Species | rabbit |
| Observation Period | 72 h |
| evaluation | Irritating to skin. |
| Source | 2 (reliable with restrictions) |

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)

xylene

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

Sensitization

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

Sensitization (Components)

12-hydroxy-N-[6-(12-hydroxyoctadecanamido)hexyl]octadecanamide

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

4-morpholinecarbaldehyde

| | |
|---------|-------|
| Species | mouse |
|---------|-------|

Mutagenicity

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

Single exposure

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)

n-butyl acetate

Specific target organ toxicity - repeated exposure

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

xylene

Specific target organ toxicity - single exposure

Remarks Route of exposure inhalative
Organs: Respiratory tract
May cause respiratory irritation.

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks Route of exposure inhalative
Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks 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

isobutyl acetate

Specific target organ toxicity - repeated exposure

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

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

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

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

Fish toxicity (Components)

Hydrocarbons, C9, aromatics

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

Daphnia toxicity (Components)

Hydrocarbons, C9, aromatics

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

Hydrocarbons, C9, aromatics

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

4-morpholinecarbaldehyde

| | | | |
|----------------------|----------------------------|---|------|
| Species | Daphnia magna (Water flea) | | |
| EC50 | > 500 | | mg/l |
| Duration of exposure | 48 | h | |

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | | | |
|----------------------|----------------------------|----|------|
| Species | Daphnia magna (Water flea) | | |
| EC50 | 22 | 46 | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202, part 1, static | | |

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | | | |
|----------------------|----------------------------|---|------|
| Species | Daphnia magna (Water flea) | | |
| NOELR | 0,23 | | mg/l |
| Duration of exposure | 21 | d | |
| Method | QSAR modelled data | | |

Algae toxicity (Components)

Hydrocarbons, C9, aromatics

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

12.2. Persistence and degradability

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

General information

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

Biodegradability (Components)

Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

4-morpholinecarbaldehyde

Value 100 %
Remarks Readily biodegradable.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Value 53,4 %
Duration of test 28 d
evaluation Not readily biodegradable.

12.3. Bioaccumulative potential

General information

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

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil

General information

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

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

General information

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

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

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

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

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

modified product

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

Dried residues




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

Disposal recommendations for packaging

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

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tunnel restriction code | D/E | | |
| 14.1. UN number | 1263 | 1263 | 1263 |
| 14.2. UN proper shipping name | PAINT | PAINT | PAINT |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| Label |  |  |  |
| 14.4. Packing group | II | II | II |
| Special provision | 640D | | |
| Limited Quantity | 5 l | | |
| Transport category | 2 | | |
| 14.5. Environmental hazards | | no | |

SECTION 15: Regulatory information

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

VOC

VOC (EU) appr. 63 % 644 g/l

MAL-Code

MAL-Code 3-1
MAL 1.056,78 m³/l

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

| | |
|--------|---------------------------------------------------------|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H201 | Explosive; mass explosion hazard. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic 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. 4 | Acute toxicity, Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment, chronic, Category 4 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Expl. 1.1 | Explosive, Division 1.1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1B | Skin sensitization, Category 1B |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

Abbreviations

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS - Chemical Abstracts Service (division of the American Chemical Society)

GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

NOAEL - No Observed Adverse Effect Level

NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Economic Cooperation and Development

VOC - Volatile Organic Compounds

Changes since the last version are highlighted in the margin (***). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

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

Contributing exposure scenario controlling environmental exposure

Use

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

Waste water

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

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

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

Dried residues

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

Disposal recommendations for packaging

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

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)

Short title of the exposure scenario

Substance number:CES006

Use

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

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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 \geq 0,7

Breakthrough time \geq 30

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

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

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

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

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

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

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

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

Exposure estimation and reference to its source

Workers (professional)

| | |
|-----------------------------------|--------------------------------------------|
| SU | SU22 |
| PROC | 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 |

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | |
|-----------------------------------|----------------------------------|
| Exposure assessment | Indoor use |
| Exposure assessment (method) | 6 mg/kg/d |
| Risk characterisation ratio (RCR) | ConsExpo v4.1 |
| Lead substance | 0,11 |
| SU | 2-methoxy-1-methylethyl acetate |
| Assessment method | SU21 |
| | inhalation, long-term - systemic |
| Exposure assessment | Indoor use |
| Exposure assessment (method) | 6,83 mg/m ³ |
| Risk characterisation ratio (RCR) | ConsExpo v4.1 |
| Lead substance | 0,6 |
| | 2-methoxy-1-methylethyl acetate |

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 | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|------------------------------|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|----------------------------------|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|------------------------------|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |

Workers (professional)

| | |
|-----------------------------------|----------------------------------|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,75 |

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

Lead substance

4-methylpentan-2-one

Workers (professional)

SU

SU22

PROC

PROC13

Assessment method

dermal, long-term - systemic

Risk characterisation ratio (RCR)

0,5

Lead substance

4-methylpentan-2-one

Workers (professional)

SU

SU22

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m³

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,6

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC10

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,15

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m³

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,4

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,01

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m³

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,5

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC13

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | |
|-----------------------------------|------------------------------|
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 62 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,07 |
| Lead substance | acetone |

Workers (professional)

| | |
|-----------------------------------|------------------------|
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,05 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,172 |
| Lead substance | xylene |

Workers (professional)

| | |
|-----------------------------------|-----------------------|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,1 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,34 |
| Lead substance | xylene |

Workers (professional)

| | |
|-----------------------------------|------------------------|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalative |
| | Indoor use |
| Exposure assessment | 0,05 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,172 |
| Lead substance | xylene |

Information on estimated exposure and downstream-user guidance

Guidance for Downstream Users

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

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES004 - Professional uses: roller application or brushing, dipping and pouring and other processing without aerosol formation (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 |

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | |
|---------|-------------------------------------------------------------------------|
| ERC8c | Wide dispersive indoor use resulting in inclusion into or onto a matrix |
| PROC10 | Roller application or brushing |
| PROC13 | Treatment of articles by dipping and pouring |
| PROCh01 | Other processing without aerosol formation |

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.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

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

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

modified product

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

Dried residues

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

Disposal recommendations for packaging

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

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

Short title of the exposure scenario

Substance number: CES008

Use

| | |
|---------|--------------------------------------------------------------------------------------------------|
| SU22 | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| PROC10 | Roller application or brushing |
| PROC13 | Treatment of articles by dipping and pouring |
| PROCh01 | Other processing without aerosol formation |

Physical form

liquid

Maximum amount used per time or activity

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

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.
Volatile organic substances will volatilise into the atmospheric air inside.
Read attached instructions before use.

Product substance and product safety related measures

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

Respiratory protection

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

Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7

Breakthrough time >= 30

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

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

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

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

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

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

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

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

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

Exposure estimation and reference to its source

Workers (professional)

| | |
|-----------------------------------|--------------------------------------------|
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 55,08 mg/m 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 |
| 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 |

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

Lead substance

2-methoxy-1-methylethyl acetate

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - local and systemic

Exposure assessment

Outdoor use

Exposure assessment (method)

55,08 mg/m³

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,2

2-methoxy-1-methylethyl acetate

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - local and systemic

Exposure assessment

Outdoor use

Exposure assessment (method)

107,14 mg/kg/d

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,7

2-methoxy-1-methylethyl acetate

SU

SU21

Assessment method

dermal, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

6 mg/kg/d

Risk characterisation ratio (RCR)

ConsExpo v4.1

Lead substance

0,11

2-methoxy-1-methylethyl acetate

SU

SU21

Assessment method

inhalation, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

6,83 mg/m³

Risk characterisation ratio (RCR)

ConsExpo v4.1

Lead substance

0,6

2-methoxy-1-methylethyl acetate

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

Long-term

Exposure assessment

inhalative

Exposure assessment (method)

242 mg/m³

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,504

n-butyl acetate

Workers (professional)

SU

SU22

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Risk characterisation ratio (RCR)

0,5

Lead substance

4-methylpentan-2-one

Workers (professional)

SU

SU22

PROC

PROC10

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

Revision: 30.11.2022

Replaces Version: 27 / DK

Print date: 13.01.23

| | |
|-----------------------------------|----------------------------------|
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,1 |
| Lead substance | 4-methylpentan-2-one |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,75 |
| Lead substance | 4-methylpentan-2-one |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - systemic |
| Risk characterisation ratio (RCR) | 0,5 |
| Lead substance | 4-methylpentan-2-one |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 200 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,6 |
| Lead substance | acetone |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | 62 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,15 |
| Lead substance | acetone |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 200 mg/m ³ |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,4 |

Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

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Print date: 13.01.23

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,01

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

200 mg/m³

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,5

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC13

Assessment method

dermal, long-term - systemic

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,07

Lead substance

acetone

Workers (professional)

SU

SU22

PROC

PROC10

Assessment method

inhalative

Exposure assessment

0,05 mg/m³

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,172

Lead substance

xylene

Workers (professional)

SU

SU22

PROC

PROC11

Assessment method

inhalative

Exposure assessment

0,1 mg/m³

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,34

Lead substance

xylene

Workers (professional)

SU

SU22

PROC

PROC13

Assessment method

inhalative

Exposure assessment

0,05 mg/m³

Exposure assessment (method)

ECETOC TRA



Trade name: Hesse PU Spatter effect PEX DB 594-FT

Version: 28 / DK

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Print date: 13.01.23

Risk characterisation ratio (RCR)

0,172

Lead substance

xylene

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.