

Trade name: Hesse PURA-ONE, matt HDE 51-2

Version: 43 / GB Revision: 19.06.2024

Replaces Version: 42 / GB Print date: 22.07.25

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

1.1. Product identifier

Hesse PURA-ONE, matt HDE 51-2

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 2003

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

ERC8a Wide dispersive indoor use of processing aids in open systems

Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8c

PROC10 Roller application or brushing

REACHSET 1003

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites ERC4 Industrial use of processing aids in processes and products, not becoming part of

articles

ERC5 Industrial use resulting in inclusion into or onto a matrix

PROCh01 Other processing without aerosol formation

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hesse GmbH & Co. KG Warendorfer Strasse 21 59075 Hamm (Germany)

+49 (0) 2381 963-00 Telephone no. +49 (0) 2381 963-849 Fax no. E-mail address ps@hesse-lignal.de

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-

methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one



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[EC no. 220-239-6] (3:1), 2,4,7,9-tetramethyldec-5-yne-4,7-diol, May produce an

allergic reaction.

Supplemental information

EUH210 Safety data sheet available on request.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Hazardous ingredients

2-butoxyethanol

CAS No. 111-76-2 EINECS no. 203-905-0

Registration no. 01-2119475108-36

Concentration >= 1 < 5 %

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

Acute Tox. 4 H302 Route of exposure: Oral exposure

Eye Irrit. 2 H319 Skin Irrit. 2 H315 Acute Tox. 3 H331

ATE Oral exposure 1.200 mg/kg cATpE Inhalation exposure, Dust/Mist 0,5 mg/l

2-(2-butoxyethoxy)ethanol

CAS No. 112-34-5 EINECS no. 203-961-6

Registration no. 01-2119475104-44

Concentration >= 1 < 4 %

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

Eye Irrit. 2 H319

2-dimethylaminoethanol

CAS No. 108-01-0 EINECS no. 203-542-8

Registration no. 01-2119492298-24

Concentration >= 0,1 < 0,7 %

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

Flam. Liq. 3 H226 Acute Tox. 3 H331 Route of exposure: Inhalation

exposure

Acute Tox. 4 H312 Route of exposure: Dermal exposure
Acute Tox. 4 H302 Route of exposure: Oral exposure

Skin Corr. 1B H314

STOT SE 3 H335 Respiratory tract

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

STOT SE 3 H335 >= 5

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



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2,4,7,9-tetramethyldec-5-yne-4,7-diol

CAS No. 126-86-3 EINECS no. 204-809-1

Registration no. 01-2119954390-39

Concentration >= 0,1 < 1 %

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

Eye Dam. 1 H318 Skin Sens. 1B H317 Aquatic Chronic 3 H412

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

CAS No. 2634-33-5 EINECS no. 220-120-9

Concentration < 0,05 %

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

Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 2 H411

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

Skin Sens. 1 H317 >= 0,05 %

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

CAS No. 55965-84-9

Concentration >= 0,001 < 0,0015 %

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

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

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

Skin Corr. 1C H314 >= 0,6 % Skin Irrit. 2 >= 0,06 % H315 Eye Irrit. 2 >= 0,06 % H319 Skin Sens. 1 H317 >= 0,0015 % Eve Dam. 1 H318 >= 0.6 % Aquatic Chronic 1 H410 M = 100Aquatic Acute 1 H400 M = 100

Note

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

Remove affected person from danger area, lay him down. In all cases of doubt, or when symptoms persist, seek medical attention. Get medical advice/attention if you feel unwell. First aider: Pay attention to self-protection!

After inhalation

When spray fog inhaled, seek medical aid.

After skin contact

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

After eye contact

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

After ingestion

Do not induce vomiting. Take medical treatment.

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

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

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist

Non suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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



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case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed and dry in a cool, well-ventilated place. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do no eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

Advice on protection against fire and explosion

Fight fire with normal precautions from a reasonable distance.

7.2. Conditions for safe storage, including any incompatibilities

Storage stability

Protect from frost.

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

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

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-butoxyethanol

List Directive 2017/164 EG

Value 98 mg/m^3 20 ppm(V)Short term exposure limit 246 mg/m^3 50 ppm(V)

Skin resorption / sensibilisation: H; Status: 12/2009

2-butoxyethanol

List EH40



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Skin resorption / sensibilisation: Sk; Status: 01/2020

2-(2-butoxyethoxy)ethanol

List EH40 Value 67,5 mg/m^3 10 ppm(V) Short term exposure limit 101,2 mg/m^3 15 ppm(V)

Status: 01/2025

2-(2-butoxyethoxy)ethanol

List Directive 2017/164 EG

Value 67,5 mg/m³ 10 ppm(V) Short term exposure limit 101,2 mg/m³ 15 ppm(V)

Status: 12/2009

Other information

Derived No/Minimal Effect Levels (DNEL/DMEL)

2-butoxyethanol

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Concentration

Long-term
Dermal exposure
Acute effects
89

Concentration 89 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Concentration
Local effects
246

Concentration 246 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action

Duration of exposure
Dermal exposure
Systemic effects

Concentration 75 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 20 ppm

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term
Route of exposure Dermal exposure
Mode of action Systemic effects

Concentration 89 mg/kg/d



mg/m³

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Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Concentration
Short-term
inhalative
Local effects
246

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term Route of exposure inhalative

Mode of action Systemic effects

Concentration 1091 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action

Long-term
Oral exposure
Systemic effects

Concentration 3,2 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Systemic effects

Concentration 13,4 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Local effects

Concentration 123 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Acute effects

Concentration 44,5 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Acute effects

Concentration 426 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Long-term



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Route of exposure Oral exposure Mode of action Systemic effects

Concentration 6,3 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Consumer

Long-term

inhalative

Local effects

Concentration 106,4 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 38 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 59 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 49 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term

Oral exposure

Systemic effects

Concentration 26,7 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Systemic effects

A25

Concentration 135 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term
inhalative
Local effects

Concentration 147 mg/m³



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Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term

Dermal exposure

Systemic effects

Concentration 89 mg/kg/d

2-(2-butoxyethoxy)ethanol

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure

Route of exposure

Mode of action

Concentration

Short-term inhalative
Local effects

Concentration 14 ppm

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Long-term
Route of exposure Dermal exposure
Mode of action Systemic effects

Concentration 20 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure

Route of exposure

Made of extinuous Contaction

Mode of action Systemic effects

Concentration 10 ppm

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure
Route of exposure
Mode of action
Local effects

Concentration 10 ppm

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term
inhalative

Local effects

Concentration 7,5 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 10 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long-term



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Route of exposure inhalative
Mode of action Systemic effects

Concentration 5 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Systemic effects

Concentration 1,3 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Local effects

Concentration 5 mg/m³

2-dimethylaminoethanol

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Systemic effects

Concentration 0,25 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Concentration
Long-term
inhalative
Systemic effects

Concentration 1,76 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 0,43 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure

Route of exposure

Mode of action

Systemic effects

F 28

Concentration 5,28 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Short-term
Route of exposure inhalative
Mode of action Local effects

Concentration 13,53 mg/m³



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Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Short-term
Route of exposure Dermal exposure
Mode of action Systemic effects

Concentration 1,2 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Short-term
Route of exposure Dermal exposure
Mode of action Local effects

Concentration 0,1 mg/cm²

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 0,126 mg/kg

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

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure

Route of exposure

Mode of action

Connectation

Local effects

Concentration 0,02 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long-term
Route of exposure oral

Mode of action Systemic effects

Concentration 0,09 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Local effects

Concentration 0,02 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Short-term
Route of exposure inhalative
Mode of action Local effects

Concentration 0,04 mg/m³

Type of value Derived No Effect Level (DNEL)



mg/kg

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Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term

Oral exposure

Systemic effects

Concentration 0,11 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure
Route of exposure
Mode of action
Local effects

Concentration 0,04 mg/m³

2,4,7,9-tetramethyldec-5-yne-4,7-diol

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Acute Route of exposure oral

Mode of action Systemic effects
Concentration 0,75

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term Route of exposure oral

Mode of action Systemic effects

Concentration 0,25 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Acute
Route of exposure dermal

Mode of action Systemic effects

Concentration 1,5 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 0,5 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Acute Route of exposure dermal

Mode of action Systemic effects

Concentration 0,75 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term
Route of exposure dermal



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Mode of action Systemic effects

Concentration 0,25 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Systemic effects

F 28

Concentration 5,28 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 1,76 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Acute
Route of exposure inhalative

Mode of action Systemic effects

Concentration 1,29 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term Route of exposure inhalative

Mode of action Systemic effects

Concentration 0,43 mg/m³

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

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 6,81 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects

Concentration 0,966 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long term
inhalative

Systemic effects

Concentration 1,2 mg/m³



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Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects
Concentration 0.345

Concentration 0,345 mg/kg

Predicted No Effect Concentration (PNEC)

2-butoxyethanol

Type of value PNEC
Type Freshwater

Concentration 8,8 mg/l

Type of value PNEC Saltwater

Concentration 0,88 mg/l

Type of value PNEC

Type saltwater sediment

Concentration 3,46 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 463 mg/l

Type of value PNEC Type Soil

Concentration 2,33 mg/kg

2-(2-butoxyethoxy)ethanol

Type of value PNEC
Type Freshwater

Concentration 1 mg/l

Type of value PNEC

Type marine water Concentration 0,1

oncentration 0,1 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 4 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 0,4 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 200 mg/l

Type of value PNEC Type Soil



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Concentration 0,4 mg/l

2-dimethylaminoethanol

Type of value PNEC Freshwater

Concentration 0,066 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,004 mg/l

Type of value PNEC

Conditions sporadic release

Concentration 0,0661 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 0,246 mg/kg

Type of value PNEC Type Soil

Concentration 0,01 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 10 mg/l

Type of value PNEC

Type saltwater sediment

Concentration 0,015 mg/kg

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

Type of value PNEC
Type Marine

Concentration 3,39 µg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 0,23 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 0,027 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 0,027 mg/kg

Type of value PNEC
Type Soil

Concentration 0,01 mg/kg



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Type of value PNEC
Type Freshwater

Concentration 3,39 µg/l

2,4,7,9-tetramethyldec-5-yne-4,7-diol

Type of value PNEC

Type Water (intermittent release)

Concentration 0,4 mg/l

Type of value PNEC
Type Freshwater

Concentration 0,04 mg/l

Type of value PNEC Saltwater

Concentration 0,004 mg/l

Type of value PNEC
Type Sediment

Concentration 0,32 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 0,032 mg/kg

Type of value PNEC Type Soil

Concentration 0,028 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 7 mg/l

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

Type of value PNEC
Type Freshwater

Concentration 4,03 µg/l

Type of value PNEC
Type Saltwater

Concentration 0,403 µg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 1,03 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 0,0499 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 0,00499 mg/kg



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Type of value PNEC Type Soil

Concentration 3 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

Appropriate Material butyl-rubber

Material thickness >= 0,5 mm Breakthrough time >= 120 min

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

Safety glasses with side-shields conforming to EN166

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 white

Odour characteristic

Melting point

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Value 100 to 197.6 °C



Trade name: Hesse PURA-ONE, matt HDE 51-2

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Flammability

not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 60 °C

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value 8
Concentration/H2O 100
Remarks Not applicable

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Value appr. 1,041 kg/l

Temperature 20 °C

Relative vapour density

Remarks not determined

Particle characteristics

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Solubility in water

Remarks not determined

Efflux time

Value 40 to 60 s

Temperature 20 °C Method DIN EN ISO 2431 - 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined



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Non-volatile content

Value 35,5 %

Method calculated value

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

SECTION 11: Toxicological information

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

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

Acute oral toxicity (Components)

2-butoxyethanol

ATE 1200 mg/kg

2-dimethylaminoethanol

Species rat

LD50 1183 mg/kg

Method OECD 401

Source 1 (reliable without restriction)

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

Species rat

LD50 1193 mg/kg

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

ATE 53 mg/kg

Acute dermal toxicity

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

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

Acute dermal toxicity (Components)

2-dimethylaminoethanol



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Species rabbit

LD50 1219 mg/kg

Source 2 (reliable with restrictions)

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

ATE 50 mg/kg

Method conversion

Acute inhalational toxicity

ATE 9,1987 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)

2-butoxyethanol

ATE 3 mg/l

Duration of exposure 4 h

Administration/Form Vapors

Source Annex VI Hazardous Substance

2-dimethylaminoethanol

ATE 0,5 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist Conversion value

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

ATE 0,05 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist Conversion value

Remarks Mist

Skin corrosion/irritation

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

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

Skin corrosion/irritation (Components)

2-butoxyethanol

Species rabbit

Duration of exposure 4 h Observation Period 28 d

evaluation Irritating to skin and mucous membranes

Method EEC 84/449, B.4

2-dimethylaminoethanol

Species rabbit

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

evaluation Irritating to skin.

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species rabbit

evaluation Severe skin irritation



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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)

2-butoxyethanol

Species rabbit

Duration of exposure 24 h Observation Period 21 d

evaluation Eye irritation

Source 1 (reliable without restriction)

2-(2-butoxyethoxy)ethanol

Species rabbit

evaluation Irritating to eyes.

Source 2 (reliable with restrictions)

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

evaluation Irritating to eyes.

2,4,7,9-tetramethyldec-5-yne-4,7-diol

Sensitization

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

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

Sensitization (Components)

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

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

evaluation May cause sensitization by skin contact.

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1) Species guinea pig

evaluation Causes sensitisation on guinea-pigs.

2,4,7,9-tetramethyldec-5-yne-4,7-diol

evaluation May cause sensitization by skin contact.

Mutagenicity

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

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

Reproductive toxicity

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

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

Carcinogenicity

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

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

Specific Target Organ Toxicity (STOT)

Single exposure

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

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)



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2-dimethylaminoethanol

Specific target organ toxicity - single exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

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

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

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

Fish toxicity (Components)

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

Species Oncorhynchus mykiss (rainbow trout) LC50 2.18

Duration of exposure 96 h

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

mg/l

Species Oncorhynchus mykiss (rainbow trout)

LC50 0,19 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)

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

Species Daphnia magna (Water flea)

EC50 2,94 mg/l

Duration of exposure 48 h

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species Daphnia magna (Water flea)

EC50 0,16 mg/l

Duration of exposure 48 h

2,4,7,9-tetramethyldec-5-yne-4,7-diol

Species Daphnia magna (Water flea)

EC50 91 mg/l

Duration of exposure 48 h

Algae toxicity (Components)

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



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Species Scenedesmus capricornutum (fresh water algae)

EC50 0,018 mg/l

Duration of exposure 72 h

Bacteria toxicity (Components)

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species activated sludge

EC50 4,5 mg/l

12.2. Persistence and degradability

General information

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

Biodegradability (Components)

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

evaluation Readily biodegradable.

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3- one [EC no. 220-239-6] (3:1)

evaluation Not readily biodegradable.

12.3. Bioaccumulative potential

General information

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

Partition coefficient n-octanol/water (log value)

Remarks not determined

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 envrionment

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.

SECTION 13: Disposal considerations



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13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic solvents

or other dangerous substances

EWC waste code 200127 - paint, inks, adhesives and resins containing

dangerous substances

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

EWC waste code 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
14.1. UN number	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of sea and air transport regulations.	Not a dangerous substance as defined in the above regulations.

SECTION 15: Regulatory information

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

VOC

VOC (EU) 7,1 % 74 g/l

Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the DSL inventory.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin



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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

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

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Eye Dam. 1

Eye Irrit. 2

Flam. Liq. 3

Skin Corr. 1B

Skin Irrit. 2

Skin Sens. 1

Skin Sensitization, Category 1

Skin Sensitization, Category 1

STOT SE 3 Specific target organ toxicity - single exposure, Category 3

Abbreviations

RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning theInternational Transport of Dangerous Goods by Rail)

IMDG - International Maritime Code for Dangerous Goods

IATA - International Air Transport Association

IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

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

GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

NOAEL - No Observed Adverse Effect Level

NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Econpmic Cooperation and Development

VOC - Volatile Organic Compounds

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

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe



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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

ES020 - 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
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

PROCh01 Other processing without aerosol formation PROC13 Treatment of articles by dipping and pouring

PROC10 Roller application or brushing

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.

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

Where possible recycling is preferred to disposal or incineration.

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

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



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Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

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.

Contributing exposure scenario controlling worker exposure (professional)

Short title of the exposure scenario

Substance number: CES040

Use

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

PROCh01 Other processing without aerosol formation

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

Physical form liquid

Maximum amount used per time or activity

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

Other relevant operational conditions

Use: Room temperature

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

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

Read attached instructions before use.

Product substance and product safety related measures

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

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

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



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only for the indicated intended use purposes.

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

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

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

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

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

Eye protection

Safety glasses with side-shields conforming to EN166

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 PROC10

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 36,9294 mg/m³
Exposure assessment (method) ESIG GES tool
Risk characterisation ratio (RCR) 0,376831
Lead substance 2-butoxyethanol

Workers (professional)

SU SU22 PROC PROC10

Assessment method dermal, long-term - systemic

Indoor use

Exposure assessment 5,4857 mg/kg/d
Exposure assessment (method) ESIG GES tool
Risk characterisation ratio (RCR) 0,043887
Lead substance 2-butoxyethanol

Workers (professional)

SU SU22 PROC PROC10

Assessment method inhalation, long-term - systemic

Outdoor use

Exposure assessment 51,7012 ppm
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,527563
Lead substance 2-butoxyethanol

Workers (professional)

SU SU22 PROC PROC10

Assessment method dermal, long-term - systemic

Outdoor use

Exposure assessment 3,2914 mg/kg/d Exposure assessment (method) ECETOC TRA Risk characterisation ratio (RCR) 0,026331



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Lead substance 2-butoxyethanol

Workers (professional)

SU **SU22 PROC** PROC11

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 62 mg/m³ ESIG GES tool Exposure assessment (method) Risk characterisation ratio (RCR) 0,632653 2-butoxyethanol

Lead substance

Workers (professional)

SU22 SU **PROC** PROC11

Assessment method dermal, long-term - systemic

Indoor use

12.8571 Exposure assessment mg/kg/d Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0.632653 2-butoxyethanol

Lead substance

Workers (professional)

SU SU₂2 **PROC** PROC11

Assessment method inhalation, long-term - systemic

> Outdoor use 10 ppm **ECETOC TRA** 0,5

> > 2-butoxyethanol

Lead substance

Workers (professional)

Exposure assessment

Exposure assessment (method)

Risk characterisation ratio (RCR)

SU **SU22 PROC** PROC11

Assessment method dermal, long-term - systemic

Outdoor use

2-butoxyethanol

Exposure assessment 21 mg/kg/d **ECETOC TRA** Exposure assessment (method) Risk characterisation ratio (RCR) 0,286

Lead substance

Workers (professional)

SU **SU22 PROC** PROC13

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 49.2393 mg/m³ Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0,502441 Lead substance 2-butoxyethanol

Workers (professional)

SU SU₂2 PROC13 **PROC**

Assessment method dermal, long-term - systemic



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Indoor use

Exposure assessment 2.7429 mg/kg/d ESIG GES tool Exposure assessment (method) Risk characterisation ratio (RCR) 0.021943 2-butoxyethanol

Lead substance

Workers (professional)

SU SU₂2 **PROC** PROC13

Assessment method inhalation, long-term - systemic

Outdoor use Exposure assessment ppm ESIG GES tool Exposure assessment (method) Risk characterisation ratio (RCR) 0.35

Lead substance

Workers (professional)

SU **SU22 PROC** PROC13

Assessment method dermal, long-term - systemic

Outdoor use

2-butoxyethanol

2-(2-butoxyethoxy)ethanol

2-butoxyethanol

Exposure assessment 14 mg/kg/d ESIG GES tool Exposure assessment (method) Risk characterisation ratio (RCR) 0.183

Lead substance

Workers (professional)

SU SU22 **PROC** PROC10

Assessment method inhalation, long-term - local and systemic

Outdoor use Exposure assessment 2,5 ppm 0.25 Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU SU₂2 **PROC** PROC10

Assessment method dermal, long-term - systemic

Outdoor use

Exposure assessment 2,74 mg/kg/d

Risk characterisation ratio (RCR) 0,137

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (professional)

SU22 SU **PROC** PROC10

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment 1,25 ppm 0,125 Risk characterisation ratio (RCR)

2-(2-butoxyethoxy)ethanol Lead substance

Workers (professional)

SU **SU22 PROC** PROC10



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Assessment method

Exposure assessment

Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU **PROC**

Assessment method

Exposure assessment

Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU **PROC**

Assessment method

Exposure assessment

Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU **PROC**

Assessment method

Exposure assessment

Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU **PROC**

Assessment method

Exposure assessment

Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU **PROC**

Assessment method

Exposure assessment Risk characterisation ratio (RCR)

Lead substance

Workers (professional)

SU **PROC**

Assessment method

dermal, long-term - systemic

Indoor use

0.55 mg/kg/d

0.027

2-(2-butoxyethoxy)ethanol

SU22

PROC11

inhalation, long-term - local and systemic

Indoor use

5 ppm

0.5

2-(2-butoxyethoxy)ethanol

SU22

PROC11

dermal, long-term - systemic

Indoor use

2,14 mg/kg/d

0,107

2-(2-butoxyethoxy)ethanol

SU22

PROC11

inhalation, long-term - local and systemic

Outdoor use ppm

4,2

0,42

2-(2-butoxyethoxy)ethanol

SU22

PROC11

dermal, long-term - systemic

Outdoor use

1,29 mg/kg/d

0.42

2-(2-butoxyethoxy)ethanol

SU22

PROC13

inhalation, long-term - local and systemic

Indoor use

ppm

0.2

2-(2-butoxyethoxy)ethanol

SU₂2

PROC13

dermal, long-term - systemic

Indoor use



Trade name: Hesse PURA-ONE, matt HDE 51-2

Version: 43 / GB Revision: 19.06.2024
Replaces Version: 42 / GB Print date: 22.07.25

Exposure assessment 0,69 mg/kg/d

Risk characterisation ratio (RCR) 0,034

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (professional)

SU SU22 PROC PROC13

Assessment method inhalation, long-term - local and systemic

Outdoor use

Exposure assessment 4,2 ppm Risk characterisation ratio (RCR) 0,42

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (professional)

SU SU22 PROC PROC13

Assessment method dermal, long-term - systemic

Outdoor use

Exposure assessment 0,41 mg/kg/d

Risk characterisation ratio (RCR) 0,42

Lead substance 2-(2-butoxyethoxy)ethanol

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

ES018 - Industrial applications: rolling, dipping, pouring and other processing without aerosol formation (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites ERC4 Industrial use of processing aids in processes and products, not becoming part of

articles

ERC5 Industrial use resulting in inclusion into or onto a matrix

PROCh01 Other processing without aerosol formation

PROCh02 roller coating industrial

PROC13 Treatment of articles by dipping and pouring

Contributing exposure scenario controlling environmental exposure

Use

ERC4 Industrial use of processing aids in processes and products, not becoming part of

articles

ERC5 Industrial use resulting in inclusion into or onto a matrix

Physical form liquid



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Maximum amount used per time or activity

Emission days per site: <= 300

Other relevant operational conditions

Use: Room temperature

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

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

Where possible recycling is preferred to disposal or incineration. Do not allow to enter soil, waterways or waste water canal.

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 080115 - aqueous sludges containing paint or varnish

containing organic solvents or other dangerous substances

Dried residues

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

under 080111

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated

by dangerous substances

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure

Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

PROCh01 Other processing without aerosol formation

PROCh02 roller coating industrial

PROC13 Treatment of articles by dipping and pouring

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



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

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

Read attached instructions before use.

Product substance and product safety related measures

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

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

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

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

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

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

Safety glasses with side-shields conforming to EN166

Body protection

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

Exposure estimation and reference to its source

Workers (industrial)

SU SU3 PROC PROC7

Assessment method inhalation, long-term - systemic

Exposure assessment 42 mg/m³
Exposure assessment (method) ESIG GES tool
Risk characterisation ratio (RCR) 0,428571
Lead substance 2-butoxyethanol

Workers (industrial)

PROC PROC7

Assessment method dermal, long-term - systemic Exposure assessment 8,5714 mg/kg/d

Exposure assessment (method)

Risk characterisation ratio (RCR)

Lead substance

ESIG GES tool
0,068571
2-butoxyethanol



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Workers (industrial)

PROC PROC10

Assessment method inhalation, long-term - systemic

Exposure assessment 55 mg/m³
Exposure assessment (method) EASY TRA v3.5
Risk characterisation ratio (RCR) 0,561224

Lead substance 2-butoxyethanol

Workers (industrial)

PROC PROC10

Assessment method dermal, long-term - systemic

Exposure assessment 5,4857 mg/kg/d
Exposure assessment (method) ESIG GES tool
Risk characterisation ratio (RCR) 0,043886

Lead substance 2-butoxyethanol

Workers (industrial)

PROC PROC13

Assessment method inhalation, long-term - systemic

Exposure assessment 49,2393 mg/m³
Exposure assessment (method) ESIG GES tool
Risk characterisation ratio (RCR) 0,502441

Lead substance 2-butoxyethanol

Workers (industrial)

PROC PROC13

Assessment method dermal, long-term - systemic

Exposure assessment 2,7429 mg/kg/d
Exposure assessment (method) EASY TRA v3.5
Risk characterisation ratio (RCR) 0,021943

Lead substance

Workers (industrial)

SU SU3 PROC PROC7

Assessment method inhalation, long-term - local and systemic

2-butoxyethanol

Exposure assessment 7 ppm

Risk characterisation ratio (RCR) 0,7

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC7

Assessment method dermal, long-term - systemic

Exposure assessment 2,14 mg/kg/d

Risk characterisation ratio (RCR) 0,11

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC10

Assessment method inhalation, long-term - local and systemic

Exposure assessment 0,5 ppm Risk characterisation ratio (RCR) 0,05

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)



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SU SU3 PROC PROC10

Assessment method dermal, long-term - systemic

Exposure assessment 5,49 mg/kg/d

Risk characterisation ratio (RCR) 0,27

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3 PROC PROC13

Assessment method inhalation, long-term - local and systemic

Exposure assessment 2 ppm Risk characterisation ratio (RCR) 0,2

Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3 PROC PROC13

Assessment method dermal, long-term - systemic

Exposure assessment 0,69 mg/kg/d

Risk characterisation ratio (RCR) 0,034

Lead substance 2-(2-butoxyethoxy)ethanol

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