

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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

1.1. Product identifier

Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

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

Use of the substance/preparation

Surface treatment of wood and other materials

Identified Uses

	REACHSET 1000
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROC7	Industrial spraying

1.3. Details of the supplier of the safety data sheet

Manufacturer

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

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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 2-methyl-2H-isothiazol-3-one, 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 [EC no. 220-239-6] (3:1), 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

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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 $\geq 0,1$ < 1 %

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

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

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

CAS No. 2634-33-5

EINECS no. 220-120-9

Registration no. 01-2120761540-60

Concentration < 0,036 %

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

Acute Tox. 4

H302

Skin Irrit. 2

H315

Eye Dam. 1

H318

Skin Sens. 1

H317

Aquatic Acute 1

H400

Aquatic Chronic 1

H410

Acute Tox. 2

H330

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

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

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

CAS No. 2682-20-4

EINECS no. 220-239-6

Registration no. 01-2120764690-50

Concentration < 0,0015 %

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

Acute Tox. 3

H301

Acute Tox. 2

H330

Route of exposure: Inhalation exposure

Skin Corr. 1B

H314

Aquatic Acute 1

H400

Aquatic Chronic 1

H410

Skin Sens. 1A

H317

Acute Tox. 3

H311

Eye Dam. 1

H318

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

Aquatic Acute 1 H400 M = 10

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Skin Sens. 1A H317 $\geq 0,0015 \%$
**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H
-isothiazol-3- one [EC no. 220-239-6] (3:1)**

CAS No. 55965-84-9

EINECS no. 611-341-5

Concentration $< 0,001 \%$

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

Acute Tox. 2 H330

Acute Tox. 2 H310

Acute Tox. 3 H301

Skin Corr. 1B H314

Skin Sens. 1 H317

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Eye Dam. 1 H318

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

Skin Corr. 1C H314 $\geq 0,6 \%$

Skin Irrit. 2 H315 $\geq 0,06 \%$

Eye Irrit. 2 H319 $\geq 0,06 \%$

Skin Sens. 1 H317 $\geq 0,0015 \%$

Eye Dam. 1 H318 $\geq 0,6 \%$

Aquatic Chronic 1 H410 M = 100

Aquatic Acute 1 H400 M = 100

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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.

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Non suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed and dry in a cool, well-ventilated place. Avoid contact with skin and eyes.
Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

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.

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Requirements for storage rooms and vessels

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

Hints on storage assembly

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

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

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

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Other information

-

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

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,02	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,09	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,02	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,04	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	0,11	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,04	mg/m ³

2-butoxyethanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Acute effects	
Concentration	89	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	246	mg/m ³

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20	ppm

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	89	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	246	mg/m ³

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1091	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	3,2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	13,4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	123	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Acute effects	
Concentration	44,5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	426	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	6,3	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	106,4	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	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	Consumer	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	26,7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	135	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	147	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	89	mg/kg/d

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,966	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1,2	mg/m ³

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	mg/kg

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

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

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

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,043	mg/m ³

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

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

Predicted No Effect Concentration (PNEC) ***

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 water	
Concentration	3,39	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,23	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,027	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,027	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,01	mg/kg

Type of value	PNEC	
Type	Freshwater	
Concentration	3,39	µg/l

2-butoxyethanol

Type of value	PNEC	
Type	Freshwater	
Concentration	8,8	mg/l

Type of value	PNEC	
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Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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

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
Type of value	PNEC	
Type	Soil	
Concentration	3	mg/kg

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

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

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Type of value	PNEC	
Type	Soil	
Concentration	0,047	mg/kg

8.2. Exposure controls

Exposure controls

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

Respiratory protection

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

Hand protection

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

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

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

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

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

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

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

Body protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	black
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Value	100 to 173 °C

Flammability
not determined

Upper and lower explosive limits

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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 to 1,2 kg/l

Method Value taken from the literature

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

Method not applicable

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

Value 39 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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.

Acute oral 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)

ATE	53	mg/kg
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1,2-benzisothiazol-3(2H)-one

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

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

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

2-butoxyethanol

ATE	1200	mg/kg
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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)

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	

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

Species	rat	
LD50	242	mg/kg

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Source 1 (reliable without restriction)

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)

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

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

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

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

2-butoxyethanol

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

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)

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

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

evaluation Irritating to skin.

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

evaluation Causes burns.

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

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)

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

evaluation Irritating to eyes.

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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

evaluation Causes severe caustic burns to skin and eyes.

2-butoxyethanol

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

Sensitization

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

Sensitization (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	guinea pig
evaluation	Causes sensitisation on guinea-pigs.

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

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

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

evaluation	May cause sensitization by skin contact.
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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.
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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.

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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)

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

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

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

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

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

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

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

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

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

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)

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

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

EC50	0,157	mg/l
Duration of exposure	96	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.

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Biodegradability (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)

evaluation Not readily biodegradable.

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

evaluation Not readily biodegradable.

12.3. Bioaccumulative potential

General information

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

Partition coefficient n-octanol/water (log value)

Remarks not determined

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

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

log Pow	-0,486	
Temperature	20	°C

12.4. Mobility in soil

General information

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

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

General information

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

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

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

12.7. Other adverse effects

General information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

SECTION 14: Transport information

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

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information ***

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

VOC

VOC (EU) 3,3 % 36 g/l

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

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

Entry No. 75 (*)

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic 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

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

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
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A

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

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

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

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

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

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES017 - Industrial applications: industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROC7	Industrial spraying

Contributing exposure scenario controlling environmental exposure

Use

ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix

Physical form

liquid

Maximum amount used per time or activity

Emission days per site: <= 300

Other relevant operational conditions

Use: Room temperature

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

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

Where possible recycling is preferred to disposal or incineration.

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

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

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Waste water

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

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

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

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure

Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
PROC7 Industrial spraying

Physical form

liquid

Maximum amount used per time or activity

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

Other relevant operational conditions

Use: Room temperature
Drying and through-curing takes place at ambient temperature or at higher temperatures.
Curing takes place through UV light exposure (only with UV light curing systems).
Read attached instructions before use.

Product substance and product safety related measures

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

Respiratory protection

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

Hand protection

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

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

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

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

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

Trade name: Hesse HYDRO-PU Glass colour lacquer, silk matt PEX HDB 57485-F

Version: 15 / UA

Revision: 02.10.2025

Replaces Version: 14 / UA

Print date: 02.12.25

Gloves should be replaced regularly and if there is any sign of damage to the glove material.
The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Body protection

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

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.