

Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

Version: 40 / GB Revision: 18.08.2023

Replaces Version: 39 / GB Print date: 15.09.23

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

#### 1.1. Product identifier

Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

# 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** 

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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

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**REACHSET 2001** 

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

services, craftsmen)

ERC8a Wide dispersive indoor use of processing aids in open systems

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

PROC11 Non industrial spraying

## 1.3. Details of the supplier of the safety data sheet

### Manufacturer

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

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

## 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## **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 Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates,

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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1), 2.4.7.9-tetramethyldec-5-vne-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-	hu	to	(Ve	tha	nol
	и	LU/	\ y C	LIIC	

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

Registration no. 01-2119475108-36

Concentration >= 1 < 10 %

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

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

Acute Tox. 4 H332 Route of exposure: Inhalation

exposure

Eye Irrit. 2 H319 Skin Irrit. 2 H315

ATE Oral exposure 1.200 mg/kg
ATE Dermal exposure 435 mg/kg
ATE Inhalation exposure, Dust/Mist 2,56 mg/l

### 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

### Triethylamine (neutralized form)

CAS No. 121-44-8 EINECS no. 204-469-4 Registration no. 01-2119475467-26

Concentration >= 0.1 < 0.7

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

Flam. Liq. 2 H225

Acute Tox. 3 H331 Route of exposure: Inhalation

exposure

Acute Tox. 3 H311 Route of exposure: Dermal exposure
Acute Tox. 4 H302 Route of exposure: Oral exposure

%



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Skin Corr. 1A H314 STOT SE 3 H335

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

STOT SE 3 H335 >= 1 %

ATE Dermal exposure 570 mg/kg
ATE Inhalation exposure, Dust/Mist 0,5 mg/l

Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

EINECS no. 400-830-7

Registration no. 01-0000015075-76

Concentration >= 0,1 < 1 %

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

Skin Sens. 1 H317 Aquatic Chronic 2 H411

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

CAS No. 55965-84-9

Concentration < 0,001 % Classification (Regulation (EC) No. 1272/2008)

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

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

Skin Corr. 1C H314 >= 0.6 %Skin Irrit. 2 H315 >= 0,06 % Eye Irrit. 2 H319 >= 0,06 % Skin Sens. 1 H317 >= 0.0015 % Eve Dam. 1 H318 >= 0.6 % Aquatic Chronic 1 M = 100H410 M = 100Aquatic Acute 1 H400



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#### Note

For explanation of abbreviations see section 16.

### **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.

### **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.



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### **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 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** 



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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

Value 123  $mg/m^3$  25 ppm(V)Short term exposure limit 246  $mg/m^3$  50 ppm(V)

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

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

Dermal exposure
Acute effects

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

Concentration 246 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action

Long-term
Dermal exposure
Systemic effects

Concentration 75 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 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)



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

16 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure

Route of exposure

Mode of action

Systemic effects

Concentration

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
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
Route of exposure
Mode of action
Concentration
Short-term
inhalative
Local effects
123

Concentration 123 mg/m<sup>3</sup>

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

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/m<sup>3</sup>

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 6,3 mg/kg



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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

106,4

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

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Systemic effects

Concentration 59 mg/m<sup>3</sup>

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 49 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Systemic effects

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

Consumer

Short-term

inhalative

Systemic effects

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

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Short-term



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Route of exposure Dermal exposure Mode of action Systemic effects

Concentration 89 mg/kg/d

Triethylamine (neutralized form)

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term Route of exposure inhalative

Mode of action Systemic effects

Concentration 8,4 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure
Route of exposure
Mode of action
Local effects

Concentration 8,4 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 12.6

Concentration 12,6 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure

Route of exposure

Mode of action

Systemic effects

As a context in the state of the s

Concentration 12,6 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

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

Concentration 12,1 mg/kg/d

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

Concentration 0,02 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

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<sup>3</sup>

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<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Consumer Duration of exposure Short-term Route of exposure Oral exposure Mode of action Systemic effects

Concentration 0,11 mg/kg/d

Derived No Effect Level (DNEL) Type of value

Reference group Workers (industrial)

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

Concentration 0.04 mg/m<sup>3</sup>

Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

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

0,35 mg/m<sup>3</sup> Concentration

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 mg/kg/d 0,5

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 0.085 mg/m<sup>3</sup>



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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 0,25 mg/kg

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 0,025 mg/kg/d

### **Predicted No Effect Concentration (PNEC)**

2-butoxyethanol

Type of value PNEC
Type Freshwater

Concentration 8,8 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,88 mg/l

Type of value PNEC

Type saltwater sediment

Concentration 3,46 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 463 mg/l

Type of value PNEC Type Soil

Concentration 2,33 mg/kg

Triethylamine (neutralized form)

Type of value PNEC
Type Freshwater
Concentration 0,064

Concentration 0,064 mg/l

Type of value PNEC

Type marine water

Concentration 0,0064 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 0,1992 mg/kg

Type of value PNEC Type Soil



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Concentration 2,361 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 100 mg/l

Type of value PNEC

Conditions sporadic release

Concentration 0,064 mg/l

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

Type of value PNEC Type Marine

Concentration 3,39 µg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 0,23 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 0,027 mg/kg

Type of value PNEC

Type Marine sediment

Concentration 0,027 mg/kg

Type of value PNEC
Type Soil

Concentration 0,01 mg/kg

Type of value PNEC Freshwater

Concentration 3,39 µg/l

Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

Type of value PNEC
Type Freshwater

Concentration 0,0023 mg/l

Type of value PNEC
Type marine water

Concentration 0,00023 mg/l

Type of value PNEC

Conditions sporadic release

Concentration 0.028 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 10 mg/l



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Type of value PNEC

Type Fresh water sediment

Concentration 3,06 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 0,306 mg/kg

Type of value PNEC Type Soil

Concentration 2 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



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**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

Flammability

not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 60 °C

Ignition temperature

Remarks not determined

**Decomposition temperature** 

Remarks not determined

pH value

Value 8,4
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. 1,023 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



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Value 54 to 66 s

Temperature 20 °C Method DIN 53211 4 mm

**Explosive properties** 

evaluation not determined

**Oxidising properties** 

Remarks not determined

Non-volatile content

Value 21,9 %

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

**Triethylamine (neutralized form)**Species rat

LD50 730 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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

ATE 53 mg/kg

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

Species rat



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LD50 1193 mg/kg

**Acute dermal toxicity** 

ATE 7.869,68 mg/kg

23

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute dermal toxicity (Components)** 

2-butoxyethanol

Species guinea pig

LD50 435 mg/kg

Source 1 (reliable without restriction)

Triethylamine (neutralized form)

Species rabbit

LD50 570 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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

ATE 50 mg/kg

Method conversion

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)** 

2-butoxyethanol

Species rat

LC50 2,56 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

Source 1 (reliable without restriction)

**Triethylamine (neutralized form)** 

Species rat

ATE 0,5 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

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



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2-butoxyethanol

Species rabbit

Duration of exposure 4 h Observation Period 28 d

evaluation Irritating to skin and mucous membranes

Method EEC 84/449, B.4

**Triethylamine (neutralized form)** 

evaluation Causes burns.

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

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)

Triethylamine (neutralized form)

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

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

evaluation Irritating to eyes.

Sensitization

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

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

**Sensitization (Components)** 

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

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

Species guinea pig

evaluation Causes sensitisation on guinea-pigs.

Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

Species guinea pig

evaluation May cause sensitization by skin contact.

Method OECD Test Guideline 406

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

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

evaluation May cause sensitization by skin contact.



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

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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.

**Specific Target Organ Toxicity (STOT) (Components)** 

Triethylamine (neutralized form)

Specific target organ toxicity - single exposure

Organs: Respiratory tract

Remarks May cause respiratory irritation.

**Aspiration hazard** 

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

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

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

Other information

No toxicological data are available.

**SECTION 12: Ecological information** 

12.1. Toxicity

**General information** 

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

Fish toxicity (Components)

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



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### **Daphnia toxicity (Components)**

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

Species Daphnia magna (Water flea)

EC50 91 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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Species Daphnia magna (Water flea)

EC50 0,16 mg/l

Duration of exposure 48 h

Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

Species Daphnia magna (Water flea)

EC50 4 mg/l

Method OECD Test Guideline 202

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

Species Daphnia magna (Water flea)

EC50 2,94 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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Species Scenedesmus capricornutum (fresh water algae)
EC50 0.018 mg/l

Duration of exposure 72 h

#### **Bacteria toxicity (Components)**

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

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

evaluation Not readily biodegradable.

Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

evaluation Not readily biodegradable.

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

evaluation Readily biodegradable.

#### 12.3. Bioaccumulative potential

### **General information**



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

# Partition coefficient n-octanol/water (log value)

Remarks not determined

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

**Triethylamine (neutralized form)** 

log Pow to 1,45

# 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**

## 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



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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) 5,9 % 60 g/l

## Other information

All components are contained in the TSCA inventory or exempted.

### **SECTION 16: Other information**

### Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful 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.
H332	Harmful 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



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Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Eve Dam. 1 Serious eve damage. Category 1 Eye Irrit. 2 Eve irritation, Category 2 Flammable liquid, Category 2 Flam. Liq. 2 Skin Corr. 1A Skin corrosion, Category 1A Skin Corr. 1B Skin corrosion, Category 1B Skin Irrit. 2 Skin irritation, Category 2 Skin Sens. 1 Skin sensitization, Category 1 Skin Sens. 1B Skin sensitization, Category 1B

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 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



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

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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.

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



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

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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

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



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

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Lead substance 2-butoxvethanol

Workers (industrial)

**PROC** PROC7

dermal, long-term - systemic Assessment method Exposure assessment 8,5714 mg/kg/d Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0.068571

Lead substance 2-butoxyethanol

Workers (industrial)

**PROC** PROC10

Assessment method inhalation, long-term - systemic

Exposure assessment 55 mg/m<sup>3</sup> Exposure assessment (method) EASY TRA v3.5 Risk characterisation ratio (RCR) 0.561224 Lead substance 2-butoxyethanol

Workers (industrial)

**PROC** PROC10

Assessment method dermal, long-term - systemic

Exposure assessment 5.4857 mg/kg/d Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0.043886

Lead substance 2-butoxyethanol

Workers (industrial)

**PROC** PROC13

Assessment method inhalation, long-term - systemic

Exposure assessment 49,2393 mg/m<sup>3</sup> Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0.502441 2-butoxyethanol

Lead substance

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 2-butoxyethanol

# Information on estimated exposure and downstream-user guidance

#### **Guidance for Downstream Users**

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

# Annex to the extended Safety Data Sheet (eSDS)

#### Short title of the exposure scenario

ES019 - Professional uses: Non industrial spraying (inside)

#### Use of the substance/preparation

Surface treatment of wood and other materials



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

Version: 40 / GB Revision: 18.08.2023

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Use

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

services, craftsmen)

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

PROC11 Non industrial spraying

# Contributing exposure scenario controlling environmental exposure

Use

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

Physical form liquid

Maximum amount used per time or activity

Emission days per site: <= 250

Other relevant operational conditions

Use: Room temperature

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

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

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)



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

Version: 40 / GB Revision: 18.08.2023

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### Short title of the exposure scenario

Substance number: CES038

Use

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

services, craftsmen)

PROC11 Non industrial spraying

Physical form liquid

Maximum amount used per time or activity

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

### Other relevant operational conditions

Use: Room temperature

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

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 (professional)



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

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SU SU<sub>2</sub>2 **PROC** PROC10

Assessment method inhalation, long-term - systemic

Indoor use

36,9294 Exposure assessment mg/m<sup>3</sup> ESIG GES tool Exposure assessment (method) Risk characterisation ratio (RCR) 0,376831 2-butoxyethanol Lead substance

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 51.7012 ppm

Exposure assessment Exposure assessment (method) **ECETOC TRA** Risk characterisation ratio (RCR) 0.527563 Lead substance 2-butoxyethanol

Workers (professional)

**SU22** SU **PROC** PROC10

Assessment method dermal, long-term - systemic

Outdoor use

Exposure assessment 3.2914 mg/kg/d **ECETOC TRA** Exposure assessment (method) Risk characterisation ratio (RCR) 0.026331 2-butoxyethanol

Lead substance

Workers (professional)

**SU22** SU **PROC** PROC11

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 62 mg/m<sup>3</sup> ESIG GES tool Exposure assessment (method) Risk characterisation ratio (RCR) 0.632653 Lead substance 2-butoxyethanol

Workers (professional)

SU **SU22** PROC11 **PROC** 

Assessment method dermal, long-term - systemic

Indoor use

mg/kg/d Exposure assessment 12,8571 ESIG GES tool Exposure assessment (method)



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

Version: 40 / GB Revision: 18.08.2023

Replaces Version: 39 / GB Print date: 15.09.23

Risk characterisation ratio (RCR) 0.632653 Lead substance 2-butoxyethanol

Workers (professional)

SU **SU22 PROC** PROC11

Assessment method inhalation, long-term - systemic

> Outdoor use 10 ppm

Exposure assessment **ECETOC TRA** Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance 2-butoxyethanol

Workers (professional)

**SU22 PROC** PROC11

Assessment method dermal, long-term - systemic

Outdoor use

2-butoxyethanol

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

Lead substance

Workers (professional)

SU SU<sub>2</sub>2 **PROC** PROC13

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 49,2393 mg/m<sup>3</sup> Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0,502441 Lead substance 2-butoxyethanol

Workers (professional)

SU **SU22 PROC** PROC13

dermal, long-term - systemic Assessment method

Indoor use

Exposure assessment 2,7429 mg/kg/d Exposure assessment (method) ESIG GES tool Risk characterisation ratio (RCR) 0,021943 2-butoxyethanol

Lead substance

Workers (professional)

SU **SU22 PROC** PROC13

Assessment method inhalation, long-term - systemic

> Outdoor use ppm ESIG GES tool

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) 0,35 Lead substance 2-butoxyethanol

Workers (professional)

SU **SU22 PROC** PROC13



Trade name: Hesse HYDRO-PU Natural wood effect, dull matt HDE 54500-0001

Version: 40 / GB Revision: 18.08.2023
Replaces Version: 39 / GB Print date: 15.09.23

Assessment method dermal, long-term - systemic

Outdoor use

Exposure assessment 14 mg/kg/d
Exposure assessment (method) ESIG GES tool
Risk characterisation ratio (RCR) 0,183
Lead substance 2-butoxyethanol

# Information on estimated exposure and downstream-user guidance

## **Guidance for Downstream Users**

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