

Trade name: Hesse PERFECT-NATURA-BASE HDG 5410

Version: 34 / GB

Revision: 18.08.2023

Replaces Version: 33 / GB

Print date: 28.11.23

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

### 1.1. Product identifier

Hesse PERFECT-NATURA-BASE HDG 5410

### 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  
-----

REACHSET 2001  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
ERC8a Wide dispersive indoor use of processing aids in open systems  
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix  
PROC11 Non industrial spraying  
-----

REACHSET 1003  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles  
ERC5 Industrial use resulting in inclusion into or onto a matrix  
PROCh01 Other processing without aerosol formation

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

#### Manufacturer

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

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## 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

EUH208 Contains Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates, 1,2-benzisothiazol-3(2H)-one, 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

#### Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

EINECS no. 400-830-7  
Registration no. 01-0000015075-76  
Concentration  $\geq$  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  $\geq$  0,05 %

### Further ingredients

#### (2-methoxymethylethoxy)propanol

CAS No. 34590-94-8  
EINECS no. 252-104-2  
Registration no. 01-2119450011-60  
Concentration  $\geq$  1 < 10 %  
Advice: [3]  
Classification (Regulation (EC) No. 1272/2008)

Not classified.

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#### Note

[3] Substance with occupational exposure limits

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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

#### After inhalation

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

#### After skin contact

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

#### After eye contact

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

#### After ingestion

Do not induce vomiting. Take medical treatment.

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

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

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

#### Hints for the physician / treatment

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist

#### Non suitable extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard. Vapours can form an explosive mixture with air.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

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

#### Other information

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

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

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Fight fire with normal precautions from a reasonable distance.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

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

#### Hints on storage assembly

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

#### Storage classes

Storage class according to TRGS 510      10      Flammable liquids

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### Further information on storage conditions

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

### 7.3. Specific end use(s)

See exposure scenario, if available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### (2-methoxymethylethoxy)propanol

List	Directive 2017/164 EG			
Value	308	mg/m <sup>3</sup>	50	ppm(V)
Status:	12/2009			

##### (2-methoxymethylethoxy)propanol

List	EH40			
Value	308	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation:	sk; Status: 01/2020			

#### Other information

-

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

##### (2-methoxymethylethoxy)propanol

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	65		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	310		mg/m <sup>3</sup>

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	15		mg/kg/d

Type of value	Derived No Effect Level (DNEL)		
Reference group	Consumer		
Duration of exposure	Long-term		
Route of exposure	inhalative		
Mode of action	Systemic effects		
Concentration	37,2		mg/m <sup>3</sup>

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	1,67	mg/kg/d

**Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,35	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	0,5	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,085	mg/m <sup>3</sup>

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	0,25	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	0,025	mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**(2-methoxymethylethoxy)propanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	19	mg/l

Type of value	PNEC	
Type	marine water	



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Concentration	1,9	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	190	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	4168	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	70,2	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	7,02	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,74	mg/kg

**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
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**

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### Exposure controls

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

### Respiratory protection

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

### Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness  $\geq$  0,7 mm

Breakthrough time  $\geq$  30 min

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

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

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

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

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

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** colourless

**Odour** characteristic

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

#### Boiling point or initial boiling point and boiling range

Value 100 to 195 °C

#### Flammability

not determined

#### Upper and lower explosive limits

Remarks not determined



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**Flash point**

Value > 60 °C

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Value 4,2  
Concentration/H<sub>2</sub>O 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

**Evaporation rate**

Remarks not determined

**Solubility in water**

Remarks not determined

**Efflux time**

Value 36 to 44 s  
Temperature 20 °C  
Method DIN 53211 4 mm

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Non-volatile content**

Value 34,8 %  
Method calculated value

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### Other information

This information is not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO<sub>x</sub>), 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)

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

Species	rat		
LD50		1193	mg/kg

#### Acute dermal toxicity

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

#### Acute inhalational toxicity

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

#### 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)

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

evaluation	Irritating to skin.
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#### Serious eye damage/irritation

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

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### Serious eye damage/irritation (Components)

#### 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)

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

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

#### Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

Species guinea pig  
evaluation May cause sensitization by skin contact.  
Method OECD Test Guideline 406

### 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.

### 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)

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

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

#### Daphnia toxicity (Components)

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

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

##### Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

Species	Daphnia magna (Water flea)	
EC50	4	mg/l
Method	OECD Test Guideline 202	

## 12.2. Persistence and degradability

### General information

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

### Biodegradability (Components)

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

evaluation Readily biodegradable.

#### Hydroxyphenylbenzotriazole derivates Hydroxyphenylbenzotriazole derivates

evaluation Not readily biodegradable.

## 12.3. Bioaccumulative potential

### General information

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

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

Remarks not determined

## 12.4. Mobility in soil

### General information

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

### Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

### General information

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

### Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

### Endocrine disrupting properties with respect to the environment

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

## 12.7. Other adverse effects

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### General information

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

### General information / ecology

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances

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

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

#### modified product

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

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

#### Dried residues

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

#### Disposal recommendations for packaging

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

Completely emptied packagings can be given for recycling.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
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) 8,3 % 84 g/l

#### Other information

All components are contained in the TSCA inventory or exempted.  
All components are contained in the PICCS inventory.  
All components are contained in the DSL inventory.

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All components are contained in the IECSC inventory.

## 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1

### Abbreviations

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

IMDG - International Maritime Code for Dangerous Goods

IATA - International Air Transport Association

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

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

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

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

GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

NOAEL - No Observed Adverse Effect Level

NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Economic Cooperation and Development

VOC - Volatile Organic Compounds

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

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

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

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

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

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## **Annex to the extended Safety Data Sheet (eSDS)**

### **Short title of the exposure scenario**

ES001 - 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
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ERC5	Industrial use resulting in inclusion into or onto a matrix
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### **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.

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

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### 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  
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.  
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

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7

Breakthrough time >= 30

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

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

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

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

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

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

### Eye protection

Safety glasses with side-shields conforming to EN166



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### 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.

## Annex to the extended Safety Data Sheet (eSDS)

### Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

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

## Contributing exposure scenario controlling environmental exposure

### Use

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

### Physical form

liquid

### Maximum amount used per time or activity

Emission days per site: <= 250

### Other relevant operational conditions

Use: Room temperature  
Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Volatile organic substances will volatilise into the atmospheric air inside.  
Where possible recycling is preferred to disposal or incineration.  
Do not allow to enter soil, waterways or waste water canal.  
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

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

or other dangerous substances  
200127 - paint, inks, adhesives and resins containing dangerous substances

#### modified product

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

#### Dried residues

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

#### Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances  
Completely emptied packagings can be given for recycling.

### Contributing exposure scenario controlling worker exposure (professional)

#### Short title of the exposure scenario

Substance number:CES006

#### Use

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

#### Physical form

liquid

#### Maximum amount used per time or activity

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

#### Other relevant operational conditions

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

#### Product substance and product safety related measures

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

#### Respiratory protection

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

#### Hand protection

Protective gloves complying with EN 374.  
Glove material  
Multilayer gloves made from

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Appropriate Material	Fluorinated rubber / butyl-rubber
Material thickness	>= 0,7
Breakthrough time	>= 30

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

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

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

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

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

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

### Eye protection

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.

## 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

ES002 - Industrial applications: rolling, dipping, pouring and other processing without aerosol formation (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROCh01	Other processing without aerosol formation
PROCh02	roller coating industrial
PROC13	Treatment of articles by dipping and pouring

## Contributing exposure scenario controlling environmental exposure

### Use

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

liquid

### Maximum amount used per time or activity

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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.

Where possible recycling is preferred to disposal or incineration.

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

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

### Waste water

Do not discharge into the drains/surface waters/groundwater.

### Exhaust air

Keep container closed. Avoid release to the environment.

### Soil

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

### Disposal recommendations for the product

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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

### modified product

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

### Dried residues

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

### Disposal recommendations for packaging

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

Completely emptied packagings can be given for recycling.

## Contributing exposure scenario controlling worker exposure

### Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
PROCh01 Other processing without aerosol formation  
PROCh02 roller coating industrial  
PROC13 Treatment of articles by dipping and pouring

### Physical form liquid

### Maximum amount used per time or activity

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

### Other relevant operational conditions

Use: Room temperature

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

Read attached instructions before use.

Trade name: Hesse PERFECT-NATURA-BASE HDG 5410

Version: 34 / GB

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### Product substance and product safety related measures

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

### Respiratory protection

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

### Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness  $\geq$  0,7

Breakthrough time  $\geq$  30

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

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

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

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

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

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

### Eye protection

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.

## 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.