

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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

### 1.1. Product identifier

Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

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

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

#### Manufacturer

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

### 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)  
Skin Sens. 1A H317

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

### 2.2. Label elements

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

#### Hazard pictograms



Signal word

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Warning

### Hazard statements

H317 May cause an allergic skin reaction.

### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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

contains phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; 2-propenoic acid, reaction products with dipentaerythritol; 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); 2-methyl-2H-isothiazol-3-one

### Supplemental information

Contains 0,4 % of components with unknown hazards to the aquatic environment.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

#### 2-butoxyethanol

CAS No.	111-76-2		
EINECS no.	203-905-0		
Registration no.	01-2119475108-36		
Concentration	>= 1	< 5	%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4	H302	Route of exposure: Oral exposure
	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-propenoic acid, reaction products with dipentaerythritol

CAS No.	1384855-91-7		
Registration no.	01-2119980666-22		
Concentration	>= 1	< 4	%
Classification (Regulation (EC) No. 1272/2008)			
	Eye Irrit. 2	H319	

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Skin Sens. 1A H317  
Aquatic Chronic 3 H412

**phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

CAS No. 162881-26-7  
EINECS no. 423-340-5  
Registration no. 01-2119489401-38  
Concentration  $\geq 0,1$  < 1 %  
Classification (Regulation (EC) No. 1272/2008)  
Skin Sens. 1A H317  
Aquatic Chronic 4 H413

**Triethylamine (neutralized form)**

CAS No. 121-44-8  
EINECS no. 204-469-4  
Registration no. 01-2119475467-26  
Concentration  $\geq 0,1$  < 1 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225  
Acute Tox. 3 H331  
Acute Tox. 3 H311  
Acute Tox. 4 H302  
Skin Corr. 1A H314  
STOT SE 3 H335  
Route of exposure: Inhalation exposure  
Route of exposure: Dermal exposure  
Route of exposure: Oral exposure

Concentration limits (Regulation (EC) No. 1272/2008)  
STOT SE 3 H335  $\geq 1$  %

ATE Dermal exposure 570 mg/kg  
ATE Inhalation exposure, Dust/Mist 0,5 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  $\geq 0,1$  < 1 %  
Classification (Regulation (EC) No. 1272/2008)  
Eye Dam. 1 H318  
Skin Sens. 1B H317  
Aquatic Chronic 3 H412

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

CAS No. 2682-20-4  
EINECS no. 220-239-6  
Concentration < 0,0015 %  
Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 3 H301  
Acute Tox. 2 H330  
Skin Corr. 1B H314  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410  
Skin Sens. 1A H317  
Route of exposure: Inhalation exposure

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Acute Tox. 3	H311
Eye Dam. 1	H318

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

Aquatic Acute 1	H400	M = 10
Skin Sens. 1A	H317	>= 0,0015 %

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1); 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
Eye 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 %
Eye Dam. 1	H318	>= 0,6 %
Aquatic Chronic 1	H410	M = 100
Aquatic Acute 1	H400	M = 100

#### Note

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accidental skin or eye contact, avoid exposure to ultra-violet light. Get medical advice/attention if you feel unwell. 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.

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

#### **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, 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.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighting**

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

##### **Other information**

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

### **SECTION 6: Accidental release measures**

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

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

#### **6.2. Environmental precautions**

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

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

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

#### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Keep container tightly closed and dry in a cool, well-ventilated place. Avoid contact with skin and eyes.

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

### Advice on protection against fire and explosion

Fight fire with normal precautions from a reasonable distance.

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

### Requirements for storage rooms and vessels

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

### Hints on storage assembly

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

### Storage classes

Storage class according to TRGS 510      10      Flammable liquids

### Further information on storage conditions

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

## 7.3. Specific end use(s)

See exposure scenario, if available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### 2-butoxyethanol

List	Directive 2017/164 EG			
Value	98	mg/m <sup>3</sup>	20	ppm(V)
Short term exposure limit	246	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: H; Status: 12/2009				

##### 2-butoxyethanol

List	EH40			
Value	123	mg/m <sup>3</sup>	25	ppm(V)
Short term exposure limit	246	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: Sk; Status: 01/2020				

#### Other information

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

##### 2-butoxyethanol

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

Type of value	Derived No Effect Level (DNEL)		
Reference group	Workers (professional)		
Duration of exposure	Long-term		
Route of exposure	inhalative		

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Mode of action	Local effects	
Concentration	246	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	75	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20	ppm
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	89	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	246	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1091	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	3,2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	13,4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	



Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	123	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	Acute effects	
Concentration	44,5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	426	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	6,3	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	106,4	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	38	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	59	mg/m <sup>3</sup>
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	



Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Concentration	49	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	26,7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	135	mg/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	147	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	89	mg/kg/d

**2-propenoic acid, reaction products with dipentaerythritol**

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	1,76	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	0,50	mg/kg

**phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

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	21	mg/m <sup>3</sup>

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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	21	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	21	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	21	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	3,3	mg/kg/d
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	3,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	3,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	3,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Mode of action	Systemic effects	
Concentration	5,2	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	1,5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	1,5	mg/kg/d
<b>Triethylamine (neutralized form)</b>		
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/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	8,4	mg/m <sup>3</sup>
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	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
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

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

**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	Long-term	
Route of exposure	inhalative	
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	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,09	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,02	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,04	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	0,11	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,04	mg/m³

### Predicted No Effect Concentration (PNEC)

#### 2-butoxyethanol

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

Type of value	PNEC	
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Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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

**2-propenoic acid, reaction products with dipentaerythritol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,013	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0013	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	2,8	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,28	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,55	mg/kg

**Triethylamine (neutralized form)**

Type of value	PNEC	
Type	Freshwater	
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

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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

## 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.

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Glove material

Appropriate Material butyl-rubber

Material thickness  $\geq$  0,5 mm

Breakthrough time  $\geq$  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

Wear eye glasses with side protection according to EN 166.

### Body protection

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** liquid

**Colour** black

**Odour** characteristic

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

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

Value 100 to 173 °C

#### Flammability

not determined

#### Upper and lower explosive limits

Remarks not determined

#### Flash point

Value  $>$  60 °C

#### Ignition temperature

Remarks not determined

#### Decomposition temperature

Remarks not determined

#### pH value

Value 8

Concentration/H<sub>2</sub>O 100

#### Viscosity



Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Remarks not determined

#### **Solubility(ies)**

Remarks not determined

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

Remarks not determined

#### **Vapour pressure**

Value < 1000 hPa

#### **Density and/or relative density**

Value appr. 1,0 kg/l

#### **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 27 to 33 s  
Temperature 20 °C  
Method DIN 53211 - 6 mm

#### **Explosive properties**

evaluation not determined

#### **Oxidising properties**

Remarks not determined

#### **Non-volatile content**

Value 40 %

#### **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.

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

## 10.5. Incompatible materials

Keep away from free radical initiators, peroxides, strong alkalis or reactive metals.

## 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

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

#### Acute 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
-----	----	-------

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

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

#### Acute dermal toxicity

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

#### Acute dermal toxicity (Components)

##### 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	

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

Species	rat
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Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

LD50 242 mg/kg  
Source 1 (reliable without restriction)

#### Acute inhalational toxicity

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

#### Acute inhalative toxicity (Components)

##### 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  
Method conversion value  
Remarks Mist

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

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

#### Skin corrosion/irritation

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

#### Skin corrosion/irritation (Components)

##### 2-butoxyethanol

Species rabbit  
Duration of exposure 4 h  
Observation Period 28 d  
evaluation Irritating to skin and mucous membranes  
Method EEC 84/449, B.4

##### 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)**

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Species evaluation rabbit  
Severe skin irritation

**2-methyl-2H-isothiazol-3-one**  
evaluation Causes burns.

### 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

### 2-propenoic acid, reaction products with dipentaerythritol

Species rabbit  
Observation Period 14 d  
evaluation Irritating to eyes.

**2-methyl-2H-isothiazol-3-one**  
evaluation Causes severe caustic burns to skin and eyes.

### Sensitization

evaluation May cause sensitization by skin contact.  
Method Calculation method (Regulation (EC) No. 1272/2008)  
Remarks The classification criteria are met.

### Sensitization (Components)

**2-propenoic acid, reaction products with dipentaerythritol**  
Species mouse  
evaluation May cause sensitization by skin contact.

### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species guinea pig  
Method OECD Test Guideline 406  
Remarks May cause sensitisation 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.

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

evaluation May cause sensitization by skin contact.

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

evaluation May cause sensitization by skin contact.

### Mutagenicity

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

### Reproductive toxicity

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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

#### Carcinogenicity

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

#### Specific Target Organ Toxicity (STOT)

##### Single exposure

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

##### Repeated exposure

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

#### Daphnia toxicity (Components)

##### 2-propenoic acid, reaction products with dipentaerythritol

Species	Daphnia magna (Water flea)	
EC50	18	mg/l
Duration of exposure	48	h

##### phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Daphnia magna (Water flea)	
EC50	10	to 100 mg/l

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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

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

Species Daphnia magna (Water flea)

EC50 91 mg/l

Duration of exposure 48 h

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

Species Daphnia magna (Water flea)

NOEC 0,044 mg/l

Duration of exposure 21 d

### Algae toxicity (Components)

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

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

EC50 0,157 mg/l

Duration of exposure 96 h

### Bacteria toxicity (Components)

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

**phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Value 1 %

Duration of test 28 d

evaluation Not readily biodegradable.

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

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

evaluation Readily biodegradable.

## 12.3. Bioaccumulative potential

### General information

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

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 environment**

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

**12.7. Other adverse effects**

**General information**

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

**General information / ecology**

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

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations for the product**

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



Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

### 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) 2,2 % 25 g/l

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### CLP categories listed in Chapter 3

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

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 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. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
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.

## **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**

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

Surface treatment of wood and other materials

#### Use

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

### **Contributing exposure scenario controlling environmental exposure**

#### Use

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

#### Physical form

liquid

#### Hazardous ingredients

##### **2-propenoic acid, reaction products with dipentaerythritol**

CAS No.	1384855-91-7
Registration no.	01-2119980666-22
Concentration	>= 1 < 10 %

##### **2-butoxyethanol**

CAS No.	111-76-2
EINECS no.	203-905-0
Registration no.	01-2119475108-36
Concentration	>= 1 < 10 %

#### Maximum amount used per time or activity

Emission days per site:	<= 300
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#### 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.

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

Print date: 16.01.23

### 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  
PROC7 Industrial spraying

### Physical form

liquid

### Hazardous ingredients

#### 2-propenoic acid, reaction products with dipentaerythritol

CAS No.	1384855-91-7			
Registration no.	01-2119980666-22			
Concentration	>= 1	<	10	%

#### 2-butoxyethanol

CAS No.	111-76-2			
EINECS no.	203-905-0			
Registration no.	01-2119475108-36			
Concentration	>= 1	<	10	%

### 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

Trade name: Hesse DIACOLOR Colour lacquer, silk matt PEX HUB 885-FT

Version: 12 / GB

Revision: 30.11.2022

Replaces Version: 11 / GB

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Material thickness  $\geq$  0,5

Breakthrough time  $\geq$  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

Wear eye glasses with side protection according to EN 166.

### Body protection

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

## Exposure estimation and reference to its source

### Workers (industrial)

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - systemic
Exposure assessment	42 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,428571
Lead substance	2-butoxyethanol

### Workers (industrial)

PROC	PROC7
Assessment method	dermal, long-term - systemic
Exposure assessment	8,5714 mg/kg/d
Exposure assessment (method)	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
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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
Lead substance	2-butoxyethanol

**Workers (industrial)**

PROC	PROC13
Assessment method	dermal, long-term - systemic
Exposure assessment	2,7429 mg/kg/d
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,021943
Lead substance	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.