

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

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

### 1.1. Product identifier

Hesse Rustic stain PEX CL X-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

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	REACHSET 1000
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROC7	Industrial spraying
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	REACHSET 2001
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC11	Non industrial spraying
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	REACHSET 2003
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
PROC10	Roller application or brushing

### 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  
Testphrase

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

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Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

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

Danger

#### Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.

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

contains	2-methylpropan-1-ol; butan-1-ol; Hydrocarbons, C9, aromatics; 1-methoxy-2-propanol
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#### Supplemental information

#### Further supplemental information

Young persons under 18 years may not work with this product.

## 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

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

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

#### 1-methoxy-2-propanol

CAS No.	107-98-2			
EINECS no.	203-539-1			
Registration no.	01-2119457435-35			
Concentration	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	STOT SE 3		H336	Nervous system

#### 2-methylpropan-1-ol

CAS No.	78-83-1			
EINECS no.	201-148-0			
Registration no.	01-2119484609-23			
Concentration	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	STOT SE 3		H335	Respiratory tract
	Skin Irrit. 2		H315	
	Eye Dam. 1		H318	
	STOT SE 3		H336	Nervous system

#### Hydrocarbons, C9, aromatics

CAS No.	128601-23-0			
EINECS no.	918-668-5			
Registration no.	01-2119455851-35			
Concentration	>= 10	<	20	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	Asp. Tox. 1		H304	
	Aquatic Chronic 2		H411	
	STOT SE 3		H335	Respiratory tract
	STOT SE 3		H336	Nervous system
			EUH066	

#### butan-1-ol

CAS No.	71-36-3			
EINECS no.	200-751-6			
Registration no.	01-2119484630-38			
Concentration	>= 10	<	20	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	Acute Tox. 4		H302	Route of exposure: Oral exposure
	STOT SE 3		H335	Respiratory tract
	Skin Irrit. 2		H315	
	Eye Dam. 1		H318	
	STOT SE 3		H336	Nervous system

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ATE	Oral exposure	2.000	mg/kg	
<b>butanone</b>				
CAS No.	78-93-3			
EINECS no.	201-159-0			
Registration no.	01-2119457290-43			
Concentration	>= 1	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system
		EUH066		
<b>propan-2-ol</b>				
CAS No.	67-63-0			
EINECS no.	200-661-7			
Registration no.	01-2119457558-25			
Concentration	>= 1	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system
<b>ethyl acetate</b>				
CAS No.	141-78-6			
EINECS no.	205-500-4			
Registration no.	01-2119475103-46			
Concentration	>= 1	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system
		EUH066		
<b>isobutyl acetate</b>				
CAS No.	110-19-0			
EINECS no.	203-745-1			
Registration no.	01-2119488971-22			
Concentration	>= 1	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	STOT SE 3	H336		Nervous system
		EUH066		
<b>n-butyl acetate</b>				
CAS No.	123-86-4			
EINECS no.	204-658-1			
Registration no.	01-2119485493-29			
Concentration	>= 1	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	STOT SE 3	H336		Nervous system

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EUH066

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

CAS No. 164383-18-0

EINECS no. 605-358-7

Concentration  $\geq$  1 < 3 %

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

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Aquatic Chronic 2 H411

**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.

**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.

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### **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**

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

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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      3      Flammable liquid

### 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

##### 1-methoxy-2-propanol

List	Directive 2017/164 EG			
Value	375	mg/m <sup>3</sup>	100	ppm(V)
Short term exposure limit	568	mg/m <sup>3</sup>	150	ppm(V)
Skin resorption / sensitisation: H; Status: 12/2009				

##### 1-methoxy-2-propanol

List	GV (DK)			
Value	185	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensitisation: H; Status: 11/2021				

##### (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	GV (DK)			
Value	309	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensitisation: H; Status: 11/2021				



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**butanone**

List	GV (DK)			
Value	145	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: H; Status: 11/2021				

**butanone**

List	Directive 2017/164 EG			
Value	600	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	900	mg/m <sup>3</sup>	300	ppm(V)
Status: 12/2009				

**propan-2-ol**

List	GV (DK)			
Value	490	mg/m <sup>3</sup>	200	ppm(V)
Status: 11/2021				

**2-methylpropan-1-ol**

List	GV (DK)			
Value	150	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: H; Status: 11/2021				

**butan-1-ol**

List	GV (DK)			
Value	150	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: H; Status: 11/2021				

**ethyl acetate**

List	Directive 2017/164 EG			
Value	734	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	1468	mg/m <sup>3</sup>	400	ppm(V)
Status: 02/2017				

**ethyl acetate**

List	GV (DK)			
Value	540	mg/m <sup>3</sup>	150	ppm(V)
Status: 11/2021				

**isobutyl acetate**

List	GV (DK)			
Value	241	mg/m <sup>3</sup>	50	ppm(V)
Status: 11/2021				

**isobutyl acetate**

List	Directive 2017/164 EG			
Value	241	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	723	mg/m <sup>3</sup>	150	ppm(V)
Status: 10/2019				

**n-butyl acetate**

List	GV (DK)			
Value	241	mg/m <sup>3</sup>	50	ppm(V)
Status: 11/2021				

**n-butyl acetate**

List	Directive 2017/164 EG			
Value	241	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	723	mg/m <sup>3</sup>	150	ppm(V)
Status: 10/2019				

**Other information**

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

### 1-methoxy-2-propanol

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	369	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	183	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	43,9	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	78	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	33	mg/kg/d

### butanone

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Concentration	600	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	
Concentration	1161	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	

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Duration of exposure	Long-term	
Route of exposure	inhalative	
Concentration	600	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	
Concentration	1161	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Concentration	106	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	
Concentration	31	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Concentration	412	mg/kg/d
<b>propan-2-ol</b>		
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	Chronic effects	
Concentration	888	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	Chronic effects	
Concentration	500	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	Chronic effects	
Concentration	89	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

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Route of exposure	Oral exposure	
Mode of action	Chronic effects	
Concentration	26	mg/kg/d

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	319	mg/kg/d

**2-methylpropan-1-ol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	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	inhalative	
Mode of action	Local effects	
Concentration	55	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	Local effects	
Concentration	25	mg/kg/d

**butan-1-ol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	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	Oral exposure	
Mode of action	Systemic effects	
Concentration	3125	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	

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Concentration 55 mg/m<sup>3</sup>

**ethyl acetate**

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	63	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	734	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	inhalative	
Mode of action	Local effects	
Concentration	734	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	Local effects	
Concentration	1468	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	1468	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	Systemic effects	
Concentration	734	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	734	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	37	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	367	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	4,5	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	Local effects	
Concentration	367	mg/m <sup>3</sup>

**isobutyl acetate**

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	10	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	300	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	inhalative	
Mode of action	Local effects	
Concentration	300	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	

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Mode of action	Systemic effects	
Concentration	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	35,7	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	Local effects	
Concentration	35,7	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	Systemic effects	
Concentration	300	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	300	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	600	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	Local effects	
Concentration	600	mg/m <sup>3</sup>

**n-butyl acetate**

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	11	mg/kg/d

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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	600	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	Local effects	
Concentration	600	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	inhalative	
Mode of action	Local effects	
Concentration	300	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	inhalative	
Mode of action	Systemic effects	
Concentration	300	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	6	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	2	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	300	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	



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Mode of action	Local effects	
Concentration	300	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	
Concentration	35,7	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	Local effects	
Concentration	35,7	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	
Mode of action	Specific effects	
Concentration	2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	Dermal exposure	
Mode of action	Specific effects	
Concentration	6	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	Dermal exposure	
Mode of action	Specific effects	
Concentration	11	mg/kg/d

#### Hydrocarbons, C9, aromatics

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	11	mg/kg

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	25	mg/kg

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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	11	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	150	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	32	mg/kg

**(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>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	



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Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	1,67	mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**1-methoxy-2-propanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	1	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	100	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	52,3	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	5,2	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	4,59	mg/kg

**butanone**

Type of value	PNEC	
Type	Freshwater	
Concentration	55,8	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	55,8	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	284,74	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	287,7	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	22,5	mg/kg

**propan-2-ol**



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Type of value	PNEC	
Type	Freshwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	28	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2251	mg/l

#### **2-methylpropan-1-ol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,4	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,04	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	11	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,52	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,152	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0699	mg/kg

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Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

**butan-1-ol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,082	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,0082	mg/l

Type of value	PNEC	
Conditions	sporadic release	
Concentration	2,25	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2476	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,178	mg/l

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0178	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	0,015	mg/kg

**ethyl acetate**

Type of value	PNEC	
Type	Saltwater	
Concentration	0,026	mg/l

Type of value	PNEC	
Type	Freshwater	
Concentration	0,26	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	0,24	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	650	mg/l

Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,125	mg/kg

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Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,25	mg/kg

Type of value	PNEC	
Conditions	sporadic release	
Concentration	1,65	mg/l

**isobutyl acetate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,17	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,017	mg/l

Type of value	PNEC	
Type	Water	
Conditions	sporadic release	
Concentration	0,34	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	200	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,877	mg/kg

Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,0877	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,0755	mg/kg

**n-butyl acetate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,18	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,018	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	35,6	mg/l

Type of value	PNEC	
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Type	Water	
Conditions	sporadic release	
Concentration	0,36	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,981	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,0981	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,0903	mg/kg

#### **(2-methoxymethylethoxy)propanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	19	mg/l
Type of value	PNEC	
Type	marine water	
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

## **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.



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### 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

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** coloured

**Odour** solvent-like

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

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

Value 55,8 to 200 °C

#### Flammability

not determined

#### Upper and lower explosive limits

Remarks not determined

#### Flash point

Value  $<$  21 °C

#### Ignition temperature

Remarks not determined

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#### Decomposition temperature

Remarks not determined

#### 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. 0,871 to 1 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 20 to 48 s  
Temperature 20 °C  
Method DIN EN ISO 2431 - 3 mm

#### Explosive properties

evaluation not determined

#### Oxidising properties

Remarks not determined

#### Non-volatile content

Value 4 %

#### 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.

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### 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

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)

##### butan-1-ol

Species	rat	
LD50	2000	mg/kg
Method	conversion value	
Source	EU stuft trotz anderer Datenlage in Akut Tox. 4 ein	

#### 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

evaluation	irritant
Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	The classification criteria are met.

#### Skin corrosion/irritation (Components)

##### 2-methylpropan-1-ol

Species	rabbit	
Duration of exposure	8	d
Observation Period	24	h
evaluation	Skin irritation	
Method	Value taken from the literature	
Source	2 (reliable with restrictions)	

##### butan-1-ol

Species	rabbit	
Duration of exposure	4	h
Observation Period	14	d

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evaluation Irritating to skin.  
Source 1 (reliable without restriction)

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

evaluation Irritating to skin.

**Serious eye damage/irritation**

evaluation corrosive  
Method Calculation method (Regulation (EC) No. 1272/2008)  
Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)**

**butanone**

Species rabbit  
Observation Period 7 d  
evaluation Causes serious eye irritation.  
Source 2 (reliable with restrictions)

**propan-2-ol**

Species rabbit  
Observation Period 14 d  
evaluation Irritating to eyes.  
Source 1 (reliable without restriction)

**2-methylpropan-1-ol**

Species rabbit  
Observation Period 14 d  
evaluation irritant - risk of serious damage to eyes  
Source 1 (reliable without restriction)

**butan-1-ol**

Species rabbit  
Observation Period 7 d  
evaluation irritant - risk of serious damage to eyes  
Source 1 (reliable without restriction)

**ethyl acetate**

Species rabbit  
Observation Period 24 h  
evaluation Irritating to eyes.  
Source 2 (reliable with restrictions)

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

evaluation Irritating to eyes.

**Sensitization**

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

**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**

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Method  
Remarks

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

### Specific Target Organ Toxicity (STOT)

#### Single exposure

Method  
Remarks  
evaluation  
evaluation

Calculation method (Regulation (EC) No. 1272/2008)  
The classification criteria are met.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

#### Repeated exposure

Remarks

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

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

#### 1-methoxy-2-propanol

##### Specific target organ toxicity - single exposure

Remarks

Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### butanone

##### Specific target organ toxicity - single exposure

Remarks

Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### propan-2-ol

##### Specific target organ toxicity - single exposure

Remarks

Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### 2-methylpropan-1-ol

##### Specific target organ toxicity - single exposure

Remarks

Organs: Respiratory tract  
May cause respiratory irritation.

#### 2-methylpropan-1-ol

##### Specific target organ toxicity - single exposure

Remarks

Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### butan-1-ol

##### Specific target organ toxicity - single exposure

Remarks

Organs: Respiratory tract  
May cause respiratory irritation.

#### butan-1-ol

##### Specific target organ toxicity - single exposure

Remarks

Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### ethyl acetate

##### Specific target organ toxicity - single exposure

Remarks

Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### isobutyl acetate

##### Specific target organ toxicity - repeated exposure

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Remarks  
Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### n-butyl acetate

##### Specific target organ toxicity - repeated exposure

Remarks  
Organs: Nervous system  
Possible narcotic effects (drowsiness, dizziness).

#### Hydrocarbons, C9, aromatics

##### Specific target organ toxicity - single exposure

Remarks  
Route of exposure inhalative  
Possible narcotic effects (drowsiness, dizziness).

#### Hydrocarbons, C9, aromatics

##### Specific target organ toxicity - single exposure

Remarks  
Possible narcotic effects (drowsiness, dizziness).

#### Aspiration hazard

The classification criteria are met.  
Harmful: may cause lung damage if swallowed.

## 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)

##### Hydrocarbons, C9, aromatics

Species	Oncorhynchus mykiss (rainbow trout)	
LC50	9,2	mg/l
Duration of exposure	96 h	

##### Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate

Species	Oncorhynchus mykiss (rainbow trout)	
LC50	1 to 10	mg/l
Duration of exposure	96 h	

#### Daphnia toxicity (Components)

##### Hydrocarbons, C9, aromatics

Species	Daphnia magna (Water flea)	
EC50	3,2	mg/l
Duration of exposure	48 h	

##### Hydrocarbons, C9, aromatics

Species	Daphnia magna (Water flea)	
NOEC	2,14	mg/l

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Duration of exposure 21 d

### Algae toxicity (Components)

#### Hydrocarbons, C9, aromatics

Species	Pseudokirchneriella subcapitata (green algae)		
EC50	2,6	to	2,9 mg/l
Duration of exposure	72	h	

## 12.2. Persistence and degradability

### General information

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

### Biodegradability (Components)

#### Hydrocarbons, C9, aromatics

evaluation 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

### 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



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### 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
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	5 l		
Transport category	2		

## SECTION 15: Regulatory information

Trade name: Hesse Rustic stain PEX CL X-FT

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

### VOC

VOC (EU)	appr.	96	%	865	g/l
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### MAL-Code

MAL-Code	5-1
MAL	3.442,4 m³/l

### Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the IECSC inventory.

All components are contained in the ECL 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

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

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

### Abbreviations

Flam. Liq - Flammable liquids  
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

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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**

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
ERC5	Industrial use resulting in inclusion into or onto a matrix

### **Physical form**

liquid

### **Hazardous ingredients**

#### **butanone**

CAS No.	78-93-3
EINECS no.	201-159-0
Registration no.	01-2119457290-43
Concentration	>= 1 < 10 %

#### **1-methoxy-2-propanol**

CAS No.	107-98-2
EINECS no.	203-539-1

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Registration no. 01-2119457435-35  
Concentration  $\geq$  0,0 < 100 %

**2-methoxypropanol**

CAS No. 1589-47-5  
EINECS no. 216-455-5  
Concentration < 0,5 %

**(2-methoxymethylethoxy)propanol**

CAS No. 34590-94-8  
EINECS no. 252-104-2  
Registration no. 01-2119450011-60  
Concentration  $\geq$  0,0 < 100 %

**ethyl acetate**

CAS No. 141-78-6  
EINECS no. 205-500-4  
Registration no. 01-2119475103-46  
Concentration  $\geq$  0,0 < 100 %

**n-butyl acetate**

CAS No. 123-86-4  
EINECS no. 204-658-1  
Registration no. 01-2119485493-29  
Concentration  $\geq$  0,0 < 100 %

**Solvent Blue 70**

CAS No. 94277-77-7  
EINECS no. 304-661-9  
Concentration  $\geq$  1 < 10 %

**isobutyl acetate**

CAS No. 110-19-0  
EINECS no. 203-745-1  
Registration no. 01-2119488971-22  
Concentration  $\geq$  0,0 < 15 %

**propan-2-ol**

CAS No. 67-63-0  
EINECS no. 200-661-7  
Registration no. 01-2119457558-25  
Concentration  $\geq$  0,0 < 10 %

**butan-1-ol**

CAS No. 71-36-3  
EINECS no. 200-751-6  
Registration no. 01-2119484630-38  
Concentration  $\geq$  10 < 25 %

**2-methylpropan-1-ol**

CAS No. 78-83-1  
EINECS no. 201-148-0  
Registration no. 01-2119484609-23  
Concentration  $\geq$  0,0 < 50 %

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

CAS No. 164383-18-0  
EINECS no. 605-358-7  
Concentration  $\geq$  1 < 10 %

Trade name: Hesse Rustic stain PEX CL X-FT

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#### Hydrocarbons, C9, aromatics

CAS No.	128601-23-0
EINECS no.	918-668-5
Registration no.	01-2119455851-35
Concentration	$\geq$ 0,0 < 25 %

#### Maximum amount used per time or activity

Emission days per site:  $\leq$  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

#### Dried residues

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

Trade name: Hesse Rustic stain PEX CL X-FT

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**butanone**

CAS No.	78-93-3			
EINECS no.	201-159-0			
Registration no.	01-2119457290-43			
Concentration	>= 1	<	10	%

**1-methoxy-2-propanol**

CAS No.	107-98-2			
EINECS no.	203-539-1			
Registration no.	01-2119457435-35			
Concentration	>= 0,0	<	100	%

**2-methoxypropanol**

CAS No.	1589-47-5			
EINECS no.	216-455-5			
Concentration		<	0,5	%

**(2-methoxymethylethoxy)propanol**

CAS No.	34590-94-8			
EINECS no.	252-104-2			
Registration no.	01-2119450011-60			
Concentration	>= 0,0	<	100	%

**ethyl acetate**

CAS No.	141-78-6			
EINECS no.	205-500-4			
Registration no.	01-2119475103-46			
Concentration	>= 0,0	<	100	%

**n-butyl acetate**

CAS No.	123-86-4			
EINECS no.	204-658-1			
Registration no.	01-2119485493-29			
Concentration	>= 0,0	<	100	%

**Solvent Blue 70**

CAS No.	94277-77-7			
EINECS no.	304-661-9			
Concentration	>= 1	<	10	%

**isobutyl acetate**

CAS No.	110-19-0			
EINECS no.	203-745-1			
Registration no.	01-2119488971-22			
Concentration	>= 0,0	<	15	%

**propan-2-ol**

CAS No.	67-63-0			
EINECS no.	200-661-7			
Registration no.	01-2119457558-25			
Concentration	>= 0,0	<	10	%

**butan-1-ol**

CAS No.	71-36-3			
EINECS no.	200-751-6			
Registration no.	01-2119484630-38			
Concentration	>= 10	<	25	%

**2-methylpropan-1-ol**

CAS No.	78-83-1			
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EINECS no. 201-148-0  
Registration no. 01-2119484609-23  
Concentration  $\geq$  0,0 < 50 %

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

CAS No. 164383-18-0  
EINECS no. 605-358-7  
Concentration  $\geq$  1 < 10 %

**Hydrocarbons, C9, aromatics**

CAS No. 128601-23-0  
EINECS no. 918-668-5  
Registration no. 01-2119455851-35  
Concentration  $\geq$  0,0 < 25 %

**Maximum amount used per time or activity**

Duration of exposure  $\leq$  8 h/d  
Frequency of exposure  $\leq$  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  $\geq$  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**

Wear eye glasses with side protection according to EN 166.

**Body protection**



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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)

PROC	PROC7
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	60,5 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,126
Lead substance	isobutyl acetate

### Workers (industrial)

PROC	PROC10
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate

### Workers (industrial)

PROC	PROC13
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate

### Workers (industrial)

PROC	PROC7
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	60,5 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,126
Lead substance	n-butyl acetate

### Workers (industrial)

PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	n-butyl acetate

### Workers (industrial)

PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

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Lead substance

n-butyl acetate

**Workers (industrial)**

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

242 mg/m<sup>3</sup>

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,504

n-butyl acetate

**Workers (industrial)**

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

Outdoor use

Exposure assessment (method)

242 mg/m<sup>3</sup>

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,504

n-butyl acetate

**Workers (industrial)**

SU

SU3

PROC

PROC7

Assessment method

inhalation, long-term - systemic

Exposure assessment

Indoor use

Risk characterisation ratio (RCR)

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

Lead substance

0,0

butan-1-ol

**Workers (industrial)**

SU

SU3

PROC

PROC7

Assessment method

inhalation, long-term - systemic

Exposure assessment

Outdoor use

Risk characterisation ratio (RCR)

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

Lead substance

0,0

butan-1-ol

**Workers (industrial)**

SU

SU3

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Exposure assessment

Indoor use

Risk characterisation ratio (RCR)

15,44 mg/m<sup>3</sup>

Lead substance

0,0498

butan-1-ol

**Workers (industrial)**

SU

SU3

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Exposure assessment

Outdoor use

Risk characterisation ratio (RCR)

15,44 mg/m<sup>3</sup>

Lead substance

0,0498

butan-1-ol

**Workers (industrial)**

Trade name: Hesse Rustic stain PEX CL X-FT

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SU  
PROC  
Assessment method  
  
Exposure assessment  
Risk characterisation ratio (RCR)  
Lead substance

**Workers (industrial)**

SU  
PROC  
Assessment method  
  
Exposure assessment  
Risk characterisation ratio (RCR)  
Lead substance

**Workers (industrial)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

**Workers (industrial)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

**Workers (industrial)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

**Workers (industrial)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

**Workers (industrial)**

SU  
PROC

SU3  
PROC13  
inhalation, long-term - systemic  
Indoor use  
15,44 mg/m<sup>3</sup>  
0,0498  
butan-1-ol

SU3  
PROC13  
inhalation, long-term - systemic  
Outdoor use  
15,44 mg/m<sup>3</sup>  
0,0498  
butan-1-ol

SU3  
PROC7  
inhalation, long-term - systemic  
46,93 mg/m<sup>3</sup>  
ESIG GES tool  
0,13  
1-methoxy-2-propanol

SU3  
PROC7  
dermal, long-term - systemic  
2,14 mg/kg/d  
ESIG GES tool  
0,04  
1-methoxy-2-propanol

SU3  
PROC10  
inhalation, long-term - systemic  
187,71 mg/m<sup>3</sup>  
ESIG GES tool  
0,51  
1-methoxy-2-propanol

SU3  
PROC10  
dermal, long-term - systemic  
5,49 mg/kg/d  
ESIG GES tool  
0,11  
1-methoxy-2-propanol

SU3  
PROC13

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

Assessment method	inhalation, long-term - systemic
Exposure assessment	187,71 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,51
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	dermal, long-term - systemic
Exposure assessment	13,71 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,27
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	dermal, long-term - systemic
Exposure assessment	63 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,034
Lead substance	ethyl acetate

**Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - local
Exposure assessment	734 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,075
Lead substance	ethyl acetate

**Workers (industrial)**

SU	SU3
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	63 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,011
Lead substance	ethyl acetate

**Workers (industrial)**

SU	SU3
PROC	PROC10
Assessment method	inhalation, long-term - local
Exposure assessment	734 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,075
Lead substance	ethyl acetate

SU	SU3
PROC	PROC7
Assessment method	Long-term
	inhalative
Exposure assessment	0 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA

Trade name: Hesse Rustic stain PEX CL X-FT

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Risk characterisation ratio (RCR)	0
Lead substance	2-methylpropan-1-ol
SU	SU3
PROC	PROC10
Assessment method	Long-term inhalative
Exposure assessment	15,44 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,0498
Lead substance	2-methylpropan-1-ol
SU	SU3
PROC	PROC13
Assessment method	Long-term inhalative
Exposure assessment	15,44 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,0498
Lead substance	2-methylpropan-1-ol

## **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

### **Hazardous ingredients**

#### **butanone**

CAS No.	78-93-3
EINECS no.	201-159-0
Registration no.	01-2119457290-43
Concentration	>= 1 < 10 %

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

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Print date: 13.01.23

**1-methoxy-2-propanol**

CAS No.	107-98-2			
EINECS no.	203-539-1			
Registration no.	01-2119457435-35			
Concentration	>= 0,0	<	100	%

**2-methoxypropanol**

CAS No.	1589-47-5			
EINECS no.	216-455-5			
Concentration		<	0,5	%

**(2-methoxymethylethoxy)propanol**

CAS No.	34590-94-8			
EINECS no.	252-104-2			
Registration no.	01-2119450011-60			
Concentration	>= 0,0	<	100	%

**ethyl acetate**

CAS No.	141-78-6			
EINECS no.	205-500-4			
Registration no.	01-2119475103-46			
Concentration	>= 0,0	<	100	%

**n-butyl acetate**

CAS No.	123-86-4			
EINECS no.	204-658-1			
Registration no.	01-2119485493-29			
Concentration	>= 0,0	<	100	%

**Solvent Blue 70**

CAS No.	94277-77-7			
EINECS no.	304-661-9			
Concentration	>= 1	<	10	%

**isobutyl acetate**

CAS No.	110-19-0			
EINECS no.	203-745-1			
Registration no.	01-2119488971-22			
Concentration	>= 0,0	<	15	%

**propan-2-ol**

CAS No.	67-63-0			
EINECS no.	200-661-7			
Registration no.	01-2119457558-25			
Concentration	>= 0,0	<	10	%

**butan-1-ol**

CAS No.	71-36-3			
EINECS no.	200-751-6			
Registration no.	01-2119484630-38			
Concentration	>= 10	<	25	%

**2-methylpropan-1-ol**

CAS No.	78-83-1			
EINECS no.	201-148-0			
Registration no.	01-2119484609-23			
Concentration	>= 0,0	<	50	%

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

CAS No. 164383-18-0  
EINECS no. 605-358-7  
Concentration  $\geq$  1 < 10 %

**Hydrocarbons, C9, aromatics**

CAS No. 128601-23-0  
EINECS no. 918-668-5  
Registration no. 01-2119455851-35  
Concentration  $\geq$  0,0 < 25 %

**Maximum amount used per time or activity**

Emission days per site:  $\leq$  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 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 (professional)**

**Short title of the exposure scenario**

Substance number: CES006

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

## Use

SU22 Professional uses: Public domain (administration, education, entertainment,  
services, craftsmen)

PROC11 Non industrial spraying  
liquid

## Physical form

## Hazardous ingredients

### butanone

CAS No.	78-93-3				
EINECS no.	201-159-0				
Registration no.	01-2119457290-43				
Concentration	>= 1	<	10	%	

### 1-methoxy-2-propanol

CAS No.	107-98-2				
EINECS no.	203-539-1				
Registration no.	01-2119457435-35				
Concentration	>= 0,0	<	100	%	

### 2-methoxypropanol

CAS No.	1589-47-5				
EINECS no.	216-455-5				
Concentration		<	0,5	%	

### (2-methoxymethylethoxy)propanol

CAS No.	34590-94-8				
EINECS no.	252-104-2				
Registration no.	01-2119450011-60				
Concentration	>= 0,0	<	100	%	

### ethyl acetate

CAS No.	141-78-6				
EINECS no.	205-500-4				
Registration no.	01-2119475103-46				
Concentration	>= 0,0	<	100	%	

### n-butyl acetate

CAS No.	123-86-4				
EINECS no.	204-658-1				
Registration no.	01-2119485493-29				
Concentration	>= 0,0	<	100	%	

### Solvent Blue 70

CAS No.	94277-77-7				
EINECS no.	304-661-9				
Concentration	>= 1	<	10	%	

### isobutyl acetate

CAS No.	110-19-0				
EINECS no.	203-745-1				
Registration no.	01-2119488971-22				
Concentration	>= 0,0	<	15	%	

### propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 0,0	<	10	%	



Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

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**butan-1-ol**

CAS No.	71-36-3			
EINECS no.	200-751-6			
Registration no.	01-2119484630-38			
Concentration	>= 10	<	25	%

**2-methylpropan-1-ol**

CAS No.	78-83-1			
EINECS no.	201-148-0			
Registration no.	01-2119484609-23			
Concentration	>= 0,0	<	50	%

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

CAS No.	164383-18-0			
EINECS no.	605-358-7			
Concentration	>= 1	<	10	%

**Hydrocarbons, C9, aromatics**

CAS No.	128601-23-0			
EINECS no.	918-668-5			
Registration no.	01-2119455851-35			
Concentration	>= 0,0	<	25	%

**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  
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

Trade name: Hesse Rustic stain PEX CL X-FT

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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 (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate

### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
	Outdoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate

### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	Long-term
	inhalative
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	n-butyl acetate

### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,5976
Lead substance	butan-1-ol

### Workers (professional)

SU	SU22
PROC	PROC10

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,5976
Lead substance	butan-1-ol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,5976
Lead substance	butan-1-ol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,5976
Lead substance	butan-1-ol

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	300 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,9677
Lead substance	butan-1-ol

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	262,79 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,71
Lead substance	1-methoxy-2-propanol

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	5,49 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,11
Lead substance	1-methoxy-2-propanol

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
	Indoor use

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

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Exposure assessment 37,54 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,1  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method dermal, long-term - systemic  
Indoor use  
Exposure assessment 2,14 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,04  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method inhalation, long-term - systemic  
Outdoor use  
Exposure assessment 131,4 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,36  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method dermal, long-term - systemic  
Outdoor use  
Exposure assessment 21,43 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,42  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method inhalation, long-term - systemic  
Indoor use  
Exposure assessment 262,79 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,71  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method dermal, long-term - systemic  
Indoor use  
Exposure assessment 13,71 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,27  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

SU22  
PROC10  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,022  
ethyl acetate

**Workers (professional)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

SU22  
PROC10  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,018  
ethyl acetate

**Workers (professional)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

SU22  
PROC11  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,034  
ethyl acetate

**Workers (professional)**

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

SU22  
PROC11  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,018  
ethyl acetate

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

SU22  
PROC10  
Long-term  
inhalative  
185,25 mg/m<sup>3</sup>  
ECETOC TRA  
0,5976  
2-methylpropan-1-ol

SU  
PROC  
Assessment method  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

SU22  
PROC11  
Long-term  
inhalative  
256,1 mg/m<sup>3</sup>  
ECETOC TRA  
0,8261  
2-methylpropan-1-ol

SU  
PROC  
Assessment method  
Exposure assessment

SU22  
PROC13  
Long-term  
inhalative  
185,25 mg/m<sup>3</sup>

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

Exposure assessment (method)  
Risk characterisation ratio (RCR)  
Lead substance

ECETOC TRA  
0,5976  
2-methylpropan-1-ol

## 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

ES004 - Professional uses: roller application or brushing, dipping and pouring and other processing without aerosol formation (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROCh01	Other processing without aerosol formation

## 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

### Hazardous ingredients

#### butanone

CAS No.	78-93-3			
EINECS no.	201-159-0			
Registration no.	01-2119457290-43			
Concentration	>= 1	<	10	%

#### 1-methoxy-2-propanol

CAS No.	107-98-2			
EINECS no.	203-539-1			
Registration no.	01-2119457435-35			
Concentration	>= 0,0	<	100	%

#### 2-methoxypropanol

CAS No.	1589-47-5			
EINECS no.	216-455-5			
Concentration		<	0,5	%

#### (2-methoxymethylethoxy)propanol

CAS No.	34590-94-8
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Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

EINECS no.	252-104-2				
Registration no.	01-2119450011-60				
Concentration	>= 0,0	<	100	%	

**ethyl acetate**

CAS No.	141-78-6				
EINECS no.	205-500-4				
Registration no.	01-2119475103-46				
Concentration	>= 0,0	<	100	%	

**n-butyl acetate**

CAS No.	123-86-4				
EINECS no.	204-658-1				
Registration no.	01-2119485493-29				
Concentration	>= 0,0	<	100	%	

**Solvent Blue 70**

CAS No.	94277-77-7				
EINECS no.	304-661-9				
Concentration	>= 1	<	10	%	

**isobutyl acetate**

CAS No.	110-19-0				
EINECS no.	203-745-1				
Registration no.	01-2119488971-22				
Concentration	>= 0,0	<	15	%	

**propan-2-ol**

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 0,0	<	10	%	

**butan-1-ol**

CAS No.	71-36-3				
EINECS no.	200-751-6				
Registration no.	01-2119484630-38				
Concentration	>= 10	<	25	%	

**2-methylpropan-1-ol**

CAS No.	78-83-1				
EINECS no.	201-148-0				
Registration no.	01-2119484609-23				
Concentration	>= 0,0	<	50	%	

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

CAS No.	164383-18-0				
EINECS no.	605-358-7				
Concentration	>= 1	<	10	%	

**Hydrocarbons, C9, aromatics**

CAS No.	128601-23-0				
EINECS no.	918-668-5				
Registration no.	01-2119455851-35				
Concentration	>= 0,0	<	25	%	

**Maximum amount used per time or activity**

Emission days per site:	<= 250
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**Other relevant operational conditions**



Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

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.

#### **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
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#### **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:CES008

#### **Use**

SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROCh01	Other processing without aerosol formation

#### **Physical form**

liquid

#### **Hazardous ingredients**

##### **butanone**

CAS No.	78-93-3
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EINECS no.	201-159-0
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Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

Registration no. 01-2119457290-43  
Concentration  $\geq 1$  < 10 %

**1-methoxy-2-propanol**

CAS No. 107-98-2  
EINECS no. 203-539-1  
Registration no. 01-2119457435-35  
Concentration  $\geq 0,0$  < 100 %

**2-methoxypropanol**

CAS No. 1589-47-5  
EINECS no. 216-455-5  
Concentration < 0,5 %

**(2-methoxymethylethoxy)propanol**

CAS No. 34590-94-8  
EINECS no. 252-104-2  
Registration no. 01-2119450011-60  
Concentration  $\geq 0,0$  < 100 %

**ethyl acetate**

CAS No. 141-78-6  
EINECS no. 205-500-4  
Registration no. 01-2119475103-46  
Concentration  $\geq 0,0$  < 100 %

**n-butyl acetate**

CAS No. 123-86-4  
EINECS no. 204-658-1  
Registration no. 01-2119485493-29  
Concentration  $\geq 0,0$  < 100 %

**Solvent Blue 70**

CAS No. 94277-77-7  
EINECS no. 304-661-9  
Concentration  $\geq 1$  < 10 %

**isobutyl acetate**

CAS No. 110-19-0  
EINECS no. 203-745-1  
Registration no. 01-2119488971-22  
Concentration  $\geq 0,0$  < 15 %

**propan-2-ol**

CAS No. 67-63-0  
EINECS no. 200-661-7  
Registration no. 01-2119457558-25  
Concentration  $\geq 0,0$  < 10 %

**butan-1-ol**

CAS No. 71-36-3  
EINECS no. 200-751-6  
Registration no. 01-2119484630-38  
Concentration  $\geq 10$  < 25 %

**2-methylpropan-1-ol**

CAS No. 78-83-1  
EINECS no. 201-148-0  
Registration no. 01-2119484609-23  
Concentration  $\geq 0,0$  < 50 %

Trade name: Hesse Rustic stain PEX CL X-FT

Version: 16 / DK

Revision: 30.11.2022

Replaces Version: 15 / DK

Print date: 13.01.23

**Cyclohexanamine, N,N-dimethyl-, compd. With -isotridecyl-hydroxypoly(oxy-1,2-ethanediyl) phosphate**

CAS No. 164383-18-0

EINECS no. 605-358-7

Concentration  $\geq$  1 < 10 %

**Hydrocarbons, C9, aromatics**

CAS No. 128601-23-0

EINECS no. 918-668-5

Registration no. 01-2119455851-35

Concentration  $\geq$  0,0 < 25 %

**Maximum amount used per time or activity**

Duration of exposure  $\leq$  8 h/d

Frequency of exposure  $\leq$  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

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**

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.

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Version: 16 / DK

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Replaces Version: 15 / DK

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## Exposure estimation and reference to its source

### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate

### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
	Outdoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate

### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	Long-term
	inhalative
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	n-butyl acetate

### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,5976
Lead substance	butan-1-ol

### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	0,5976
Lead substance	butan-1-ol

### Workers (professional)

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	185,25 mg/m <sup>3</sup>

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Risk characterisation ratio (RCR) 0,5976  
Lead substance butan-1-ol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method inhalation, long-term - systemic  
Outdoor use  
Exposure assessment 185,25 mg/m<sup>3</sup>  
Risk characterisation ratio (RCR) 0,5976  
Lead substance butan-1-ol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method inhalation, long-term - systemic  
Indoor use  
Exposure assessment 300 mg/m<sup>3</sup>  
Risk characterisation ratio (RCR) 0,9677  
Lead substance butan-1-ol

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method inhalation, long-term - systemic  
Exposure assessment 262,79 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,71  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method dermal, long-term - systemic  
Exposure assessment 5,49 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,11  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method inhalation, long-term - systemic  
Indoor use  
Exposure assessment 37,54 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,1  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method dermal, long-term - systemic  
Indoor use  
Exposure assessment 2,14 mg/kg/d  
Exposure assessment (method) ESIG GES tool

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Risk characterisation ratio (RCR) 0,04  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method inhalation, long-term - systemic  
Outdoor use  
Exposure assessment 131,4 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,36  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method dermal, long-term - systemic  
Outdoor use  
Exposure assessment 21,43 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,42  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method inhalation, long-term - systemic  
Indoor use  
Exposure assessment 262,79 mg/m<sup>3</sup>  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,71  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method dermal, long-term - systemic  
Indoor use  
Exposure assessment 13,71 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,27  
Lead substance 1-methoxy-2-propanol

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method dermal, long-term - systemic  
Exposure assessment 63 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,022  
Lead substance ethyl acetate

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method inhalation, long-term - local

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Exposure assessment	734	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,018	
Lead substance	ethyl acetate	

**Workers (professional)**

SU	SU22	
PROC	PROC11	
Assessment method	dermal, long-term - systemic	
Exposure assessment	63	mg/kg/d
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,034	
Lead substance	ethyl acetate	

**Workers (professional)**

SU	SU22	
PROC	PROC11	
Assessment method	inhalation, long-term - local	
Exposure assessment	734	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,018	
Lead substance	ethyl acetate	

SU	SU22	
PROC	PROC10	
Assessment method	Long-term inhalative	
Exposure assessment	185,25	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,5976	
Lead substance	2-methylpropan-1-ol	

SU	SU22	
PROC	PROC11	
Assessment method	Long-term inhalative	
Exposure assessment	256,1	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,8261	
Lead substance	2-methylpropan-1-ol	

SU	SU22	
PROC	PROC13	
Assessment method	Long-term inhalative	
Exposure assessment	185,25	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,5976	
Lead substance	2-methylpropan-1-ol	

SU	SU22	
PROC	PROC13	
Assessment method	Long-term inhalative	
Exposure assessment	185,25	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,5976	
Lead substance	2-methylpropan-1-ol	

## **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.



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