

Trade name: Hesse Wiping stain Line effect PEX TD 4217-FT

Version: 13 / UA

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

### 1.1. Product identifier

Hesse Wiping stain Line effect PEX TD 4217-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  
Wareндorfer Strasse 21  
59075 Hamm (Germany)  
Telephone no. +49 (0) 2381 963-00  
Fax no. +49 (0) 2381 963-849  
E-mail address ps@hesse-lignal.de

### 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225

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Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

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.
H411	Toxic 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; Hydrocarbons, C9, aromatics; propan-2-ol; Hydrocarbons, C10, aromatics, <1% naphthalene
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## 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

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## Hazardous ingredients

### Hydrocarbons, C9, aromatics

CAS No.	128601-23-0			
EINECS no.	918-668-5			
Registration no.	01-2119455851-35			
Concentration	>= 30	< 50	%	
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		

### 2-methylpropan-1-ol

CAS No.	78-83-1			
EINECS no.	201-148-0			
Registration no.	01-2119484609-23			
Concentration	>= 20	< 25	%	
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, C10, aromatics, <1% naphthalene

CAS No.	64742-94-5			
EINECS no.	918-811-1			
Registration no.	01-2119463583-34			
Concentration	>= 10	< 20	%	
Classification (Regulation (EC) No. 1272/2008)				
	Asp. Tox. 1	H304		
	Aquatic Chronic 2	H411		
	STOT SE 3	H336		Nervous system
		EUH066		

### butylglycol acetate

CAS No.	112-07-2			
EINECS no.	203-933-3			
Registration no.	01-2119475112-47			
Concentration	>= 1	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H332		Route of exposure: Inhalation exposure
	Acute Tox. 4	H312		Route of exposure: Dermal exposure
	Acute Tox. 4	H302		Route of exposure: Oral exposure

ATE	Oral exposure	1.880	mg/kg
ATE	Dermal exposure	1.480	mg/kg
ATE	Inhalation exposure, Dust/Mist	5	mg/l

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#### **2-butoxyethanol**

CAS No. 111-76-2

EINECS no. 203-905-0

Registration no. 01-2119475108-36

Concentration  $\geq 1$  < 4 %

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

Acute Tox. 4 H302

Eye Irrit. 2 H319

Skin Irrit. 2 H315

Acute Tox. 3 H331

Route of exposure: Oral exposure

ATE Oral exposure 1.200 mg/kg

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

#### **propan-2-ol**

CAS No. 67-63-0

EINECS no. 200-661-7

Registration no. 01-2119457558-25

Concentration  $\geq 1$  < 10 %

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

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

Nervous system

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

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

#### **After inhalation**

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

#### **After skin contact**

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

#### **After eye contact**

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

#### **After ingestion**

Do not induce vomiting. Take medical treatment.

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

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

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

#### **Hints for the physician / treatment**

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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 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

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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.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Other information**

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

#### **2-butoxyethanol**

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

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

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

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Concentration 75 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 20 ppm

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure Dermal exposure

Mode of action Systemic effects

Concentration 89 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Local effects

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

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 1091 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 3,2 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 13,4 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Local effects

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

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

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Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Acute effects	
Concentration	44,5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	426	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	6,3	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	106,4	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	38	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	59	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	49	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	26,7	mg/kg/d

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	135	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	147	mg/m <sup>3</sup>

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

**propan-2-ol**

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	
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	

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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

**butylglycol 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	102	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	133	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	102	mg/kg/d

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

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Mode of action	Systemic effects	
Concentration	775	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	333	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	36	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	4,3	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	67	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	27	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	499	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	18	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	

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Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	166	mg/m³

#### 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

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

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	11	mg/kg

#### Predicted No Effect Concentration (PNEC)

##### 2-butoxyethanol

Type of value	PNEC
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Type	Freshwater	
Concentration	8,8	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,88	mg/l
Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,46	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	463	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2,33	mg/kg

**propan-2-ol**

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

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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
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
<b>butylglycol acetate</b>		
Type of value	PNEC	
Type	Freshwater	
Concentration	0,304	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0304	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	0,56	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	2,03	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,203	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,68	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	90	mg/l

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## 8.2. Exposure controls

### Exposure controls

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

### Respiratory protection

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

### Hand protection

Glove material

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.

### Body protection

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

## SECTION 9: Physical and chemical properties

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

**Physical state** liquid

**Colour** black

**Odour** solvent-like

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

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

Value 82 to 270 °C

#### Flammability

not determined

#### Upper and lower explosive limits

Remarks not determined

#### Flash point

Value < 21 °C

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#### Auto-ignition temperature

Remarks not determined

#### Decomposition temperature

Remarks not determined

#### pH value

Remarks Not applicable

#### Viscosity

Remarks not determined

#### Solubility(ies)

Remarks not determined

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

Remarks not determined

#### Vapour pressure

Remarks not determined

#### Density and/or relative density

Value	appr. 0,88		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	10,5	%
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#### Other information

This information is not available.

### SECTION 10: Stability and reactivity

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### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO<sub>x</sub>), dense black smoke, No decomposition if used as prescribed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

#### Acute oral toxicity (Components)

##### 2-butoxyethanol

ATE	1200	mg/kg
-----	------	-------

##### butylglycol acetate

Species	rat	
LD50	1880	mg/kg

#### Acute dermal toxicity

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

#### Acute dermal toxicity (Components)

##### butylglycol acetate

Species	rabbit	
LD50	1480	mg/kg

#### Acute inhalational toxicity

ATE	14,8742	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

#### Acute inhalative toxicity (Components)

##### 2-butoxyethanol

ATE	3	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	

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Source Annex VI Hazardous Substance

**butylglycol acetate**

ATE	5	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Remarks	Mist	

**Skin corrosion/irritation**

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

**Skin corrosion/irritation (Components)**

**2-butoxyethanol**

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

**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)

**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)**

**2-butoxyethanol**

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

**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)

**Sensitization**

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

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### Mutagenicity

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

### Reproductive toxicity

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

### Carcinogenicity

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

### Specific Target Organ Toxicity (STOT)

#### Single exposure

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

#### Repeated exposure

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

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

#### propan-2-ol

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

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

#### 2-methylpropan-1-ol

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

Organs: Respiratory tract  
Remarks May cause respiratory irritation.

#### 2-methylpropan-1-ol

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

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

#### Hydrocarbons, C10, aromatics, <1% naphthalene

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

Remarks Possible narcotic effects (drowsiness, dizziness).

#### Hydrocarbons, C9, aromatics

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

Route of exposure inhalative  
Remarks 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

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### 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	

#### 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
Duration of exposure	21	d	

##### Hydrocarbons, C10, aromatics, <1% naphthalene

Species	Daphnia magna (Water flea)		
EC50	1	to	10 mg/l
Duration of exposure	48	h	

#### 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.
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### 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
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## 12.4. Mobility in soil

### General information

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

### Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

### General information

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

### Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

## 12.6 Endocrine disrupting properties

### Endocrine disrupting properties with respect to the environment

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

## 12.7. Other adverse effects

### General information

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

### General information / ecology

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

#### Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

## SECTION 14: Transport information \*\*\*







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	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		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS

## Information for all modes of transport

### 14.6. Special precautions for user

See Sections 6 to 8

## Other information

### 14.7. Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information \*\*\*

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

#### Major-accident categories acc. 2012/18/EU \*\*\*

Category	P5c	FLAMMABLE LIQUID	5.000.000	kg	50.000.000	kg
Category	E2	Hazardous to the Aquatic Environment	200.000	kg	500.000	kg

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## Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3.

### Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the IECSC inventory.

## 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
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. 3	Acute toxicity, Category 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

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

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

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

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

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

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

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

ES003 - Professional uses: Non industrial spraying (inside)

### **Use of the substance/preparation**

Surface treatment of wood and other materials

### **Use**

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

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

### **Use**

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

### **Physical form**

liquid

### **Maximum amount used per time or activity**

Emission days per site: <= 250

### **Other relevant operational conditions**

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

### **Waste water**

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

### **Exhaust air**

Keep container closed. Avoid release to the environment.

### **Soil**

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

### **Disposal recommendations for the product**

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

### **Disposal recommendations for packaging**

Completely emptied packagings can be given for recycling.

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

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

Substance number:CES006

### **Use**

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

PROC11 Non industrial spraying

**Physical form** liquid

**Maximum amount used per time or activity**

Duration of exposure <= 8 h/d

Frequency of exposure <= 220 d/a

**Other relevant operational conditions**

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

**Product substance and product safety related measures**

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

**Respiratory protection**

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol.

Recommended Filter type: Respiratory protection mask with combination filter A/P2

**Hand protection**

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7

Breakthrough time >= 30

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

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

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

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

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

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

**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

PROC10

Assessment method

inhalation, long-term - systemic

Indoor use

Exposure assessment

36,9294 mg/m<sup>3</sup>

Exposure assessment (method)

ESIG GES tool

Risk characterisation ratio (RCR)

0,376831

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Lead substance

2-butoxyethanol

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

dermal, long-term - systemic

Indoor use

Exposure assessment

5,4857 mg/kg/d

Exposure assessment (method)

ESIG GES tool

Risk characterisation ratio (RCR)

0,043887

Lead substance

2-butoxyethanol

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Outdoor use

Exposure assessment

51,7012 ppm

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,527563

Lead substance

2-butoxyethanol

**Workers (professional)**

SU

SU22

PROC

PROC10

Assessment method

dermal, long-term - systemic

Outdoor use

Exposure assessment

3,2914 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,026331

Lead substance

2-butoxyethanol

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - systemic

Indoor use

Exposure assessment

62 mg/m<sup>3</sup>

Exposure assessment (method)

ESIG GES tool

Risk characterisation ratio (RCR)

0,632653

Lead substance

2-butoxyethanol

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

dermal, long-term - systemic

Indoor use

Exposure assessment

12,8571 mg/kg/d

Exposure assessment (method)

ESIG GES tool

Risk characterisation ratio (RCR)

0,632653

Lead substance

2-butoxyethanol

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - systemic

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Exposure assessment 10 ppm  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,5  
Lead substance 2-butoxyethanol

**Workers (professional)**

SU SU22  
PROC PROC11  
Assessment method dermal, long-term - systemic  
Outdoor use  
Exposure assessment 21 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,286  
Lead substance 2-butoxyethanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method inhalation, long-term - systemic  
Indoor use  
Exposure assessment 49,2393 mg/m³  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,502441  
Lead substance 2-butoxyethanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method dermal, long-term - systemic  
Indoor use  
Exposure assessment 2,7429 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,021943  
Lead substance 2-butoxyethanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method inhalation, long-term - systemic  
Outdoor use  
Exposure assessment 7 ppm  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,35  
Lead substance 2-butoxyethanol

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method dermal, long-term - systemic  
Outdoor use  
Exposure assessment 14 mg/kg/d  
Exposure assessment (method) ESIG GES tool  
Risk characterisation ratio (RCR) 0,183  
Lead substance 2-butoxyethanol

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**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	10,5 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,53
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	2,74 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,53
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
Exposure assessment	4,20 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,35
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
Exposure assessment	12,85 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,35
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
Exposure assessment	7,00 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,35
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
Exposure assessment	2,74 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,03
Lead substance	butylglycol acetate

SU	SU22
PROC	PROC10

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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

## **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**

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

**Maximum amount used per time or activity**

Trade name: Hesse Wiping stain Line effect PEX TD 4217-FT

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Emission days per site: <= 300

#### Other relevant operational conditions

Use: Room temperature  
Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Where possible recycling is preferred to disposal or incineration.  
Do not allow to enter soil, waterways or waste water canal.  
Dispose of rinse water in accordance with local and national regulations.

#### Waste water

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

#### Exhaust air

Keep container closed. Avoid release to the environment.

#### Soil

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

#### Disposal recommendations for the product

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

#### Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

### Contributing exposure scenario controlling worker exposure

#### Use

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

#### Physical form

liquid

#### Maximum amount used per time or activity

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

#### Other relevant operational conditions

Use: Room temperature  
Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Read attached instructions before use.

#### Product substance and product safety related measures

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

#### Respiratory protection

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

#### Hand protection

Glove material  
Multilayer gloves made from  
Appropriate Material Fluorinated rubber / butyl-rubber  
Material thickness >= 0,7

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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.

### Body protection

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

### Exposure estimation and reference to its source

#### Workers (industrial)

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

#### Workers (industrial)

PROC	PROC7
Assessment method	dermal, long-term - systemic
Exposure assessment	8,5714 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,068571
Lead substance	2-butoxyethanol

#### Workers (industrial)

PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	55 mg/m <sup>3</sup>
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,561224
Lead substance	2-butoxyethanol

#### Workers (industrial)

PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	5,4857 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,043886
Lead substance	2-butoxyethanol

#### Workers (industrial)

PROC	PROC13
Assessment method	inhalation, long-term - systemic
Exposure assessment	49,2393 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,502441

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Lead substance

2-butoxyethanol

**Workers (industrial)**

PROC

PROC13

Assessment method

dermal, long-term - systemic

Exposure assessment

2,7429 mg/kg/d

Exposure assessment (method)

EASY TRA v3.5

Risk characterisation ratio (RCR)

0,021943

Lead substance

2-butoxyethanol

**Workers (industrial)**

PROC

PROC7

Assessment method

inhalation, long-term - systemic

Exposure assessment

5 ppm

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,25

Lead substance

butylglycol acetate

**Workers (industrial)**

PROC

PROC7

Assessment method

dermal, long-term - systemic

Exposure assessment

8,57 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,08

Lead substance

butylglycol acetate

**Workers (industrial)**

PROC

PROC10

Assessment method

inhalation, long-term - local and systemic

Exposure assessment

3,00 ppm

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,15

Lead substance

butylglycol acetate

**Workers (industrial)**

PROC

PROC10

Assessment method

dermal, long-term - local and systemic

Exposure assessment

5,49 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,05

Lead substance

butylglycol acetate

**Workers (industrial)**

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

3,00 ppm

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,15

Lead substance

butylglycol acetate

**Workers (industrial)**

PROC

PROC13

Assessment method

dermal, long-term - systemic

Exposure assessment

2,74 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,03

Lead substance

butylglycol acetate

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

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

**Physical form** liquid

**Maximum amount used per time or activity**

Emission days per site: <= 250

**Other relevant operational conditions**

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Where possible recycling is preferred to disposal or incineration.

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

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

**Waste water**

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

**Exhaust air**

Keep container closed. Avoid release to the environment.

**Soil**

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

**Disposal recommendations for the product**

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

**Disposal recommendations for packaging**

Completely emptied packagings can be given for recycling.

**Contributing exposure scenario controlling worker exposure (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

**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

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suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

### Respiratory protection

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

### Hand protection

Glove material  
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.

### 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	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	36,9294 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,376831
Lead substance	2-butoxyethanol

### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	5,4857 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,043887
Lead substance	2-butoxyethanol

### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	51,7012 ppm

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

ECETOC TRA  
0,527563  
2-butoxyethanol

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC10  
dermal, long-term - systemic  
Outdoor use

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

3,2914 mg/kg/d  
ECETOC TRA  
0,026331  
2-butoxyethanol

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC11  
inhalation, long-term - systemic  
Indoor use

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

62 mg/m<sup>3</sup>  
ESIG GES tool  
0,632653  
2-butoxyethanol

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC11  
dermal, long-term - systemic  
Indoor use

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

12,8571 mg/kg/d  
ESIG GES tool  
0,632653  
2-butoxyethanol

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC11  
inhalation, long-term - systemic  
Outdoor use

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

10 ppm  
ECETOC TRA  
0,5  
2-butoxyethanol

**Workers (professional)**

SU  
PROC  
Assessment method

SU22  
PROC11  
dermal, long-term - systemic  
Outdoor use

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

21 mg/kg/d  
ECETOC TRA  
0,286  
2-butoxyethanol

**Workers (professional)**

SU

SU22

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PROC  
Assessment method

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

**Workers (professional)**

SU  
PROC  
Assessment method

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

**Workers (professional)**

SU  
PROC  
Assessment method

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

**Workers (professional)**

SU  
PROC  
Assessment method

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

**Workers (professional)**

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

**Workers (professional)**

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

PROC13  
inhalation, long-term - systemic  
Indoor use  
49,2393 mg/m<sup>3</sup>  
ESIG GES tool  
0,502441  
2-butoxyethanol

SU22  
PROC13  
dermal, long-term - systemic  
Indoor use  
2,7429 mg/kg/d  
ESIG GES tool  
0,021943  
2-butoxyethanol

SU22  
PROC13  
inhalation, long-term - systemic  
Outdoor use  
7 ppm  
ESIG GES tool  
0,35  
2-butoxyethanol

SU22  
PROC13  
dermal, long-term - systemic  
Outdoor use  
14 mg/kg/d  
ESIG GES tool  
0,183  
2-butoxyethanol

SU22  
PROC10  
inhalation, long-term - systemic  
10,5 ppm  
ECETOC TRA  
0,53  
butylglycol acetate

SU22  
PROC10  
dermal, long-term - systemic  
2,74 mg/kg/d  
ECETOC TRA  
0,53  
butylglycol acetate

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**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
Exposure assessment	4,20 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,35
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
Exposure assessment	12,85 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,35
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
Exposure assessment	7,00 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,35
Lead substance	butylglycol acetate

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
Exposure assessment	2,74 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,03
Lead substance	butylglycol 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



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Exposure assessment	inhalative
Exposure assessment (method)	185,25 mg/m <sup>3</sup>
Risk characterisation ratio (RCR)	ECETOC TRA
Lead substance	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.