

Trade name: Hesse Wiping stain PEX TD 4213-FT

Version: 15 / ZA

Revision: 22.10.2025

Replaces Version: 14 / ZA

Print date: 01.12.25

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

### 1.1. Product identifier

Hesse Wiping stain PEX TD 4213-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

## 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
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.
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.

#### 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, C6-C7, n-alkanes, isoalkanes, cyclics
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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

### Hazardous ingredients

#### Hydrocarbons, C9, aromatics

CAS No.	128601-23-0
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EINECS no. 918-668-5  
 Registration no. 01-2119455851-35  
 Concentration  $\geq 30$  < 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  $\geq 20$  < 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

#### propan-2-ol

CAS No. 67-63-0  
 EINECS no. 200-661-7  
 Registration no. 01-2119457558-25  
 Concentration  $\geq 10$  < 20 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225  
 Eye Irrit. 2 H319  
 STOT SE 3 H336 Nervous system

#### hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No. 92128-66-0  
 EINECS no. 921-024-6  
 Registration no. 01-2119475514-35  
 Concentration  $\geq 3$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225  
 Asp. Tox. 1 H304  
 Aquatic Chronic 2 H411  
 Skin Irrit. 2 H315  
 STOT SE 3 H336 Nervous system

#### Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

CAS No. 64742-49-0  
 EINECS no. 920-750-0  
 Registration no. 01-2119473851-33  
 Concentration  $\geq 3$  < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225

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Asp. Tox. 1	H304	
Aquatic Chronic 2	H411	
STOT SE 3	H336	Nervous system

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

CAS No.	64742-48-9		
EINECS no.	919-857-5		
Registration no.	01-2119463258-33		
Concentration	>= 1	< 10	%
Classification (Regulation (EC) No. 1272/2008)			
Flam. Liq. 3	H226		
Asp. Tox. 1	H304		
STOT SE 3	H336		Nervous system
	EUH066		

**cyclohexane**

CAS No.	110-82-7		
EINECS no.	203-806-2		
Registration no.	01-2119463273-41		
Concentration	>= 0,3	< 1	%
Classification (Regulation (EC) No. 1272/2008)			
Flam. Liq. 2	H225		
Asp. Tox. 1	H304		
Skin Irrit. 2	H315		
STOT SE 3	H336		
Aquatic Acute 1	H400		
Aquatic Chronic 1	H410		

**n-Hexane**

CAS No.	110-54-3		
EINECS no.	203-777-6		
Registration no.	01-2119480412-44		
Concentration	>= 0,1	< 1	%
Classification (Regulation (EC) No. 1272/2008)			
Flam. Liq. 2	H225		
Repr. 2	H361f		
Asp. Tox. 1	H304		
STOT RE 2	H373		
Skin Irrit. 2	H315		
STOT SE 3	H336		
Aquatic Chronic 2	H411		

Concentration limits (Regulation (EC) No. 1272/2008)  
STOT RE 2 H373 >= 5 %

## 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.

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#### **After inhalation**

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

#### **After skin contact**

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

#### **After eye contact**

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

#### **After ingestion**

Do not induce vomiting. Take medical treatment.

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

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

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

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

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

#### **Non suitable extinguishing media**

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

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

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

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

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

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

#### **Other information**

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.

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

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

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

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

#### Advice on protection against fire and explosion

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

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

#### Requirements for storage rooms and vessels

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

#### Hints on storage assembly

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

#### Storage classes

Storage class according to TRGS 510      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

#### Exposure limit values

##### propan-2-ol

List

OEL (ZA)

Value

400

ppm(V)

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Short term exposure limit 800 ppm(V)  
Status: 03/2021

**propan-2-ol**

List OEL (ZA)  
Type BAT  
Value 40 mg/l  
Status: 03/2021

**2-methylpropan-1-ol**

List OEL (ZA)  
Value 100 ppm(V)  
Status: 03/2021

**Other information**

-

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

**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  
Duration of exposure Long-term  
Route of exposure Dermal exposure  
Mode of action Systemic effects  
Concentration 319 mg/kg/d

**2-methylpropan-1-ol**



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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

**hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics**

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	773	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	2035	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	699	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	608	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	699	mg/kg/d

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Concentration	125	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Concentration	208	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Concentration	125	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Concentration	871	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Concentration	185	mg/kg

**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	

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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

**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

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	699	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	773	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	699	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	2035	mg/m <sup>3</sup>

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	608	mg/kg/d

#### **n-Hexane**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	75	mg/m <sup>3</sup>
Source	ECHA	

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

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

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	5,3	mg/kg/d
Source	ECHA	

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	mg/kg/d
Source	ECHA	

#### **cyclohexane**

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

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	700	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1400	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	700	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1400	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,016	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	206	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	412	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	206	mg/m <sup>3</sup>

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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	Local effects	
Concentration	412	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	
Mode of action	Systemic effects	
Concentration	1,186	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	59,4	mg/kg/d

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

#### **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**



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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
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
<b>cyclohexane</b>		
Type of value	PNEC	
Type	Freshwater	
Concentration	44,7	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	4,47	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	3,24	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3,6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,36	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,694	mg/kg

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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** coloured

**Odour** solvent-like

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

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

Value 60 to 200 °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.	0,848		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

Method not applicable

#### 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

### 10.1. Reactivity

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

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## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

## 10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

## 10.5. Incompatible materials

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

## 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

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

#### Acute 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)

##### hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

Species	rabbit
Duration of exposure	4 h
Observation Period	7 d
evaluation	Irritating to skin.
Source	2 (reliable with restrictions)

##### n-Hexane

Species	rabbit
Duration of exposure	24 h

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Observation Period 72 h  
evaluation Irritating to skin.

**cyclohexane**  
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)

**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.

#### 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.

#### Reproduction toxicity (Components)

**n-Hexane**  
evaluation Reproductive toxicity, Category 2

#### 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

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Remarks 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).

#### hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

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

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

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

##### 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).

#### n-Hexane

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

Remarks May cause damage to organs through prolonged or repeated exposure:

#### n-Hexane

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

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

#### cyclohexane

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

evaluation May cause drowsiness or dizziness.  
Route of exposure inhalative

#### Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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

evaluation May cause drowsiness or dizziness.  
Organs: Nervous system  
Remarks Possible narcotic effects (drowsiness, dizziness).

#### Aspiration hazard

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

## 11.2. Information on other hazards

### Endocrine disrupting properties with respect to humans

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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, C6-C7, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna (Water flea)		
EC50	3		mg/l
Duration of exposure	48	h	
Method	OECD 202, part 1, static		

##### hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna (Water flea)		
NOEC	0,17		mg/l
Duration of exposure	21	d	

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Species	Daphnia magna (Water flea)		
EC50	22	46	mg/l
Duration of exposure	48	h	
Method	OECD 202, part 1, static		

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Species	Daphnia magna (Water flea)		
NOELR	0,23		mg/l
Duration of exposure	21	d	
Method	QSAR modelled data		

##### 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, C7-C9, n-alkanes, isoalkanes, cyclics

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

##### Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna (Water flea)		
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NOEC	0,17		mg/l
Duration of exposure	21	d	

#### **n-Hexane**

Species	Daphnia magna (Water flea)		
EC50	2,1		mg/l
Duration of exposure	48	h	

#### **cyclohexane**

Species	Daphnia magna		
EC50	0,9		mg/l
Duration of exposure	48	h	
Source	2 (reliable with restrictions)		

#### **cyclohexane**

Species	Daphnia magna		
NOELR	0,835		mg/l
Duration of exposure	21	d	
Source	2 (reliable with restrictions)		

### **Algae toxicity (Components)**

#### **Hydrocarbons, C9, aromatics**

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

#### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

Species	Pseudokirchneriella subcapitata (green algae)		
EC50	10		mg/l
Duration of exposure	72	h	
Method	OECD 201		

## **12.2. Persistence and degradability**

### **General information**

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

### **Biodegradability (Components)**

#### **hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics**

Value	98	%
Duration of test	28	d
evaluation	Readily biodegradable.	

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Value	53,4	%
Duration of test	28	d
evaluation	Not readily biodegradable.	

#### **Hydrocarbons, C9, aromatics**

evaluation	Readily biodegradable.
------------	------------------------

#### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

evaluation	Readily biodegradable.
------------	------------------------

#### **cyclohexane**

Value	77	%
Duration of test	25	d
Method	OECD 301 F	
Remarks	Readily biodegradable.	
Source	ECHA	

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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

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

##### n-Hexane

log Pow 3,9

### 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 I		
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.
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.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
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
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, 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.

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## Use

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

PROC11 Non industrial spraying

**Physical form** liquid

## Maximum amount used per time or activity

Duration of exposure <= 8 h/d

Frequency of exposure <= 220 d/a

## Other relevant operational conditions

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

## Product substance and product safety related measures

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

## Respiratory protection

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

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

## Hand protection

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

SU SU22

PROC PROC10

Assessment method Long-term  
inhalative

Exposure assessment 185,25 mg/m<sup>3</sup>

Exposure assessment (method) ECETOC TRA

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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**

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.

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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  
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.

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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

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,



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ERC8a	services, craftsmen)
ERC8c	Wide dispersive indoor use of processing aids in open systems
PROC10	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC13	Roller application or brushing
PROCh01	Treatment of articles by dipping and pouring
	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

### **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

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### 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  $\geq$  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

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



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SU  
PROC  
Assessment method

SU22  
PROC13  
Long-term  
inhalative  
185,25 mg/m<sup>3</sup>  
ECETOC TRA  
0,5976  
2-methylpropan-1-ol

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

## **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.