

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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

### 1.1. Product identifier

Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

	REACHSET 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  
STOT SE 3 H336

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



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

## Signal word

Danger

## Hazard statements

H225 Highly flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

## 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.  
P308+P313 IF exposed or concerned: Get medical advice/ attention.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

contains 2-methoxy-1-methylethyl acetate; 2-ethoxy-1-methylethyl acetate; isobutyl acetate; n-butyl acetate

## Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

## 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

#### n-butyl acetate

CAS No.	123-86-4			
EINECS no.	204-658-1			
Registration no.	01-2119485493-29			
Concentration	>= 25	< 50	%	
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3	H226		
	STOT SE 3	H336		Nervous system
		EUH066		

#### 2-ethoxy-1-methylethyl acetate

CAS No.	54839-24-6			
EINECS no.	259-370-9			
Registration no.	01-2119475116-39			
Concentration	>= 10	< 20	%	
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3	H226		
	STOT SE 3	H336		Nervous system

#### 2-methoxy-1-methylethyl acetate

CAS No.	108-65-6
EINECS no.	203-603-9

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Registration no. 01-2119475791-29  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 3 H226  
STOT SE 3 H336

**isobutyl acetate**

CAS No. 110-19-0  
EINECS no. 203-745-1  
Registration no. 01-2119488971-22  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225  
STOT SE 3 H336  
EUH066 Nervous system

**xylene**

CAS No. 1330-20-7  
EINECS no. 215-535-7  
Registration no. 01-2119488216-32  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 3 H226  
Acute Tox. 4 H332  
Route of exposure: Inhalation exposure  
Acute Tox. 4 H312  
Route of exposure: Dermal exposure  
Skin Irrit. 2 H315  
Asp. Tox. 1 H304  
STOT SE 3 H335  
Respiratory tract; Route of exposure: inhalative  
Eye Irrit. 2 H319

ATE Dermal exposure 2.000 mg/kg  
ATE Inhalation exposure, Dust/Mist 5 mg/l

**Hydrocarbons, C9, aromatics**

CAS No. 128601-23-0  
EINECS no. 918-668-5  
Registration no. 01-2119455851-35  
Concentration  $\geq 1$  < 3 %  
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

**cellulose nitrate  $\leq 12.6$  % N**

CAS No. 9004-70-0  
Classification (Regulation (EC) No. 1272/2008)  
Expl. 1.1 H201

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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

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

#### **General information**

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

#### **After inhalation**

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

#### **After skin contact**

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

#### **After eye contact**

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

#### **After ingestion**

Do not induce vomiting. Take medical treatment.

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

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

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

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

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

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

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

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

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

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

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

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

#### **Other information**

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.

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

## SECTION 6: Accidental release measures

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

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

### 6.2. Environmental precautions

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

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

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

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

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

#### Advice on protection against fire and explosion

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

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

#### Requirements for storage rooms and vessels

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

#### Hints on storage assembly

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

#### Storage classes

Storage class according to TRGS 510      3      Flammable liquid

#### Further information on storage conditions

Protect from frost. Protect from heat and direct sunlight. Keep away from sources of ignition - No

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

smoking. Store in accordance with the particular national regulations.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### n-butyl acetate

List	OEL (ZA)		
Value		100	ppm(V)
Short term exposure limit		300	ppm(V)
Status: 03/2021			

##### xylene

List	OEL (ZA)		
Value		200	ppm(V)
Short term exposure limit		300	ppm(V)
Skin resorption / sensibilisation: Sk; Status: 03/2021			

##### xylene

List	OEL		
Type	BAT		
Value	1,5	g/g Kreatinin	
Status: 03/2021			

#### Other information

-

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

##### 2-methoxy-1-methylethyl acetate

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	275	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	153,5	mg/kg/d

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

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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Mode of action	Systemic effects	
Concentration	33	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	54,8	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	550	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	33	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	33	mg/m <sup>3</sup>

**2-ethoxy-1-methylethyl acetate**

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	608	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	103	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	302	mg/m <sup>3</sup>



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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	365	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	62	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	181	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	13,1	mg/kg/d

**n-butyl acetate**

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	600	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	600	mg/m <sup>3</sup>

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



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	6	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	35,7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	35,7	mg/m <sup>3</sup>

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Specific effects	
Concentration	2	mg/kg/d

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

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

**xylene**

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	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	
Mode of action	Systemic effects	
Concentration	212	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	65,3	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	260	mg/m <sup>3</sup>

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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	174	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	442	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	221	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	289	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	289	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	12,5	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Local effects	
Concentration	174	mg/kg/d

**Hydrocarbons, C9, aromatics**

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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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

**isobutyl acetate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	10	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	35,7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	35,7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	600	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	600	mg/m <sup>3</sup>

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

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

### **2-methoxy-1-methylethyl acetate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,635	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0635	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	6,35	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	3,29	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,329	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,29	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l

### **2-ethoxy-1-methylethyl acetate**

Type of value	PNEC	
Type	Freshwater	
Concentration	1,3	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,13	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	6,4	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,64	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,34	mg/kg

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	62,5	mg/l

**n-butyl acetate**

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

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

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

Type of value	PNEC	
Type	Water	
Conditions	sporadic release	
Concentration	0,36	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,981	mg/kg

Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,0981	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	0,0903	mg/kg

**xylene**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,327	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,327	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	12,46	mg/kg

Type of value	PNEC	
Type	saltwater sediment	
Concentration	12,46	mg/kg

Type of value	PNEC	
Type	Soil	



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Concentration	2,31	mg/kg
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Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	6,58	mg/l

**isobutyl acetate**

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

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

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

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

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

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

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

## 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	>= 0,7 mm

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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 78 to 200 °C

#### Flammability

not determined

#### Upper and lower explosive limits

Remarks not determined

#### Flash point

Value 21 to 22 °C

#### 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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

#### Vapour pressure

Remarks not determined

#### Density and/or relative density

Value appr. 1,005 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 40 to 50 s  
Temperature 20 °C  
Method DIN 53211 - 6 mm

#### Explosive properties

evaluation not determined

#### Oxidising properties

Remarks not determined

#### Non-volatile content

Value 31,8 %  
Method calculated value

#### Other information

This information is not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

### 10.5. Incompatible materials

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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

## 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

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

#### Acute dermal toxicity (Components)

##### xylene

ATE	2000	mg/kg
Source	alle Daten über 2000 mg/kg	

#### Acute inhalational toxicity

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

#### Acute inhalative toxicity (Components)

##### xylene

ATE	5	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Source	alle Werte über 5 mg/l	

#### Skin corrosion/irritation

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

#### Skin corrosion/irritation (Components)

##### xylene

Species	rabbit
Observation Period	72 h
evaluation	Irritating to skin.
Source	2 (reliable with restrictions)

#### Serious eye damage/irritation

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

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

##### xylene

Species	rabbit
evaluation	Irritating to eyes.
Source	2 (reliable with restrictions)

#### Sensitization

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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

#### Mutagenicity

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

#### Reproductive toxicity

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

#### Carcinogenicity

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 drowsiness or dizziness.

##### Repeated exposure

Remarks	Based on available data, the classification criteria are not met.
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#### Specific Target Organ Toxicity (STOT) (Components)

##### 2-methoxy-1-methylethyl acetate

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

evaluation	May cause drowsiness or dizziness.
	Organs: Nervous system

##### 2-ethoxy-1-methylethyl acetate

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

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

##### n-butyl acetate

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

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

##### xylene

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

	Route of exposure inhalative
	Organs: Respiratory tract
Remarks	May cause respiratory irritation.

##### 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).
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##### isobutyl acetate

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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Remarks  
Organs: Nervous system  
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

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

#### Algae toxicity (Components)

##### Hydrocarbons, C9, aromatics

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

### 12.2. Persistence and degradability

#### General information

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

#### Biodegradability (Components)

##### Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

### 12.3. Bioaccumulative potential

#### General information

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

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

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

Remarks not determined

**12.4. Mobility in soil**

**General information**

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

**Mobility in soil**

no data available

**12.5. Results of PBT and vPvB assessment**

**General information**

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

**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties**

**Endocrine disrupting properties with respect to the environment**

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

**12.7. Other adverse effects**

**General information**

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

**General information / ecology**

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

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**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**



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

	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		
Remarks	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.	Transport in accordance with 3.3.3.1 of the IATA regulations
Limited Quantity	5 l		
Transport category	2		
14.5. Environmental hazards	-		

## 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
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#### VOC \*\*\*

VOC (EU)	68,2	%	685	g/l
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Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

### **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.

### **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.
H201	Explosive; mass explosion hazard.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
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. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Expl. 1.1	Explosive, Division 1.1
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.

## **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**

Print date: 01.12.25

Other processing without aerosol formation

liquid

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

### Maximum amount used per time or activity

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

### Other relevant operational conditions

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

### Product substance and product safety related measures

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

### Respiratory protection

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

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

### Hand protection

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	PROC13
Assessment method	inhalation, long-term - local and systemic
Exposure assessment	55,08 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,2
Lead substance	2-methoxy-1-methylethyl acetate

#### Workers (professional)

SU	SU22
PROC	PROC13

Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Assessment method	dermal, long-term - local and systemic
Exposure assessment	13,71 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,09
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - local and systemic
Exposure assessment	137,71 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - local and systemic
Exposure assessment	27,43 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,18
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic Indoor use
Exposure assessment	27,54 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,1
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - local and systemic Indoor use
Exposure assessment	2,14 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,01
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic Outdoor use
Exposure assessment	55,08 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,2
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
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Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

**PROC**

Assessment method

Exposure assessment

Exposure assessment (method)

Risk characterisation ratio (RCR)

Lead substance

SU

Assessment method

Exposure assessment

Exposure assessment (method)

Risk characterisation ratio (RCR)

Lead substance

SU

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

**PROC11**

dermal, long-term - local and systemic

Outdoor use

107,14 mg/kg/d

ECETOC TRA

0,7

2-methoxy-1-methylethyl acetate

SU21

dermal, long-term - systemic

Indoor use

6 mg/kg/d

ConsExpo v4.1

0,11

2-methoxy-1-methylethyl acetate

SU21

inhalation, long-term - systemic

Indoor use

6,83 mg/m<sup>3</sup>

ConsExpo v4.1

0,6

2-methoxy-1-methylethyl acetate

**SU22**

PROC11

Long-term

inhalative

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

ECETOC TRA

0,504

n-butyl acetate

**SU22**

PROC10

inhalative

Indoor use

0,05 mg/m<sup>3</sup>

ECETOC TRA

0,172

xylene

**SU22**

PROC11

inhalative

Indoor use

0,1 mg/m<sup>3</sup>

ECETOC TRA

0,34

xylene

**SU22**

PROC13



Trade name: Hesse UNA-THIX-COLOR for brushing PEX DB 46135-FT

Version: 19 / ZA

Revision: 23.10.2025

Replaces Version: 18 / ZA

Print date: 01.12.25

Assessment method

inhalative

Indoor use

Exposure assessment

0,05 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,172

Lead substance

xylene

#### **Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - local and systemic

Indoor use

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

isobutyl acetate

#### **Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - local and systemic

Outdoor use

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

isobutyl acetate

## **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.