

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

### 1.1. Product identifier

Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

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

### 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
Aquatic Chronic 3	H412

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

### 2.2. Label elements

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
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.

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

contains	acetone; ethyl acetate; isobutyl acetate; 2-methoxy-1-methylethyl 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-methoxy-1-methylethyl acetate

CAS No.	108-65-6
EINECS no.	203-603-9
Registration no.	01-2119475791-29

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
Flam. Liq. 3			H226		
STOT SE 3			H336		

**Hydrocarbons, C9, aromatics**

CAS No.	128601-23-0				
EINECS no.	918-668-5				
Registration no.	01-2119455851-35				
Concentration	>=	3	<	10	%
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		

**ethyl acetate**

CAS No.	141-78-6				
EINECS no.	205-500-4				
Registration no.	01-2119475103-46				
Concentration	>=	1	<	4	%
Classification (Regulation (EC) No. 1272/2008)					
Flam. Liq. 2			H225		
Eye Irrit. 2			H319		
STOT SE 3			H336		Nervous system
			EUH066		

**isobutyl acetate**

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

**acetone**

CAS No.	67-64-1				
EINECS no.	200-662-2				
Registration no.	01-2119471330-49				
Concentration	>=	1	<	3	%
Classification (Regulation (EC) No. 1272/2008)					
Flam. Liq. 2			H225		
Eye Irrit. 2			H319		
STOT SE 3			H336		Nervous system
			EUH066		

**copper**

CAS No.	7440-50-8
---------	-----------

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

EINECS no. 231-159-6  
Registration no. 01-2119480154-42  
Concentration  $\geq 1$  < 2 %  
Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 4 H302  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410  
Eye Irrit. 2 H319  
Route of exposure: Oral exposure

ATE Oral exposure 482 mg/kg

#### toluene

CAS No. 108-88-3  
EINECS no. 203-625-9  
Registration no. 01-2119471310-51  
Concentration  $\geq 0,1$  < 1 %  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225  
Repr. 2 H361d  
Asp. Tox. 1 H304  
STOT RE 2 H373  
Skin Irrit. 2 H315  
STOT SE 3 H336  
Nervous system

#### zinc powder — zinc dust (pyrophoric)

CAS No. 7440-66-6  
EINECS no. 231-175-3  
Registration no. 01-2119467174-37  
Concentration  $\geq 0,1$  < 0,3 %  
Classification (Regulation (EC) No. 1272/2008)  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

### Further ingredients

#### aluminium powder (stabilised)

CAS No. 7429-90-5  
EINECS no. 231-072-3  
Registration no. 01-2119529243-45  
Concentration  $\geq 1$  < 10 %  
Advice: [3]  
Classification (Regulation (EC) No. 1272/2008)  
Water-react. 2 H261  
Flam. Sol. 1 H228

#### ethanol

CAS No. 64-17-5  
EINECS no. 200-578-6  
Registration no. 01-2119457610-43  
Concentration  $\geq 1$  < 10 %  
Advice: [3]  
Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 2 H225

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

#### **Note**

[3] Substance with occupational exposure limits

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

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

#### **General information**

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

#### **After inhalation**

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

#### **After skin contact**

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

#### **After eye contact**

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

#### **After ingestion**

Do not induce vomiting. Take medical treatment.

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

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

### **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.

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

### **Other information**

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

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

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

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

### **6.2. Environmental precautions**

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

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

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

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

Refer to protective measures listed in Sections 7 and 8.

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

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

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

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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Storage class according to TRGS 510 3

Flammable liquid

### Further information on storage conditions

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

-

#### 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	
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	



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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>

**acetone**

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	1210	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	186	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2420	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	1210	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	62	mg/kg/d



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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	200	mg/m <sup>3</sup>

**ethyl acetate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	63	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	734	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	734	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1468	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1468	mg/m <sup>3</sup>

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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	734	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	734	mg/m³
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	37	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	367	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	4,5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	367	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	63	mg/kg
<b>isobutyl acetate</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	10	mg/kg/d

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	600	mg/m <sup>3</sup>

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

**n-butyl acetate**

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

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

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

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

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

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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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>

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	

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Route of exposure	Dermal exposure	
Mode of action	Specific effects	
Concentration	11	mg/kg/d

**ethanol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1900	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	343	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	960	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	960	mg/m³

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	206	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	114	mg/m³

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	87	mg/kg/d

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

**toluene**

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	343	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	384	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	192	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	192	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	384	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	Local effects	
Concentration	226	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	226	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	56,5	mg/m³
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	226	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	8,13	mg/kg/d

#### Hydrocarbons, C9, aromatics

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	11	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	25	mg/kg
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	

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

**zinc powder — zinc dust (pyrophoric)**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	83	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	0,83	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	2,5	mg/m <sup>3</sup>

**aluminium powder (stabilised)**

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	3,72	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	3,72	mg/m <sup>3</sup>

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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	7,9	mg/kg/d

**copper**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	273	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	137	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	Systemic effects	
Concentration	273	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	20	mg/m³

**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



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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
<b>acetone</b>		
Type of value	PNEC	
Type	Freshwater	
Concentration	10,6	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	1,06	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	30,4	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,04	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	29,5	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	21	mg/l

**ethyl acetate**

Type of value	PNEC	
Type	Saltwater	



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Concentration	0,026	mg/l
Type of value	PNEC	
Type	Freshwater	
Concentration	0,26	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,24	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	650	mg/l
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,125	mg/kg
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,25	mg/kg
Type of value	PNEC	
Conditions	sporadic release	
Concentration	1,65	mg/l
<b>isobutyl acetate</b>		
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	

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Type	Soil	
Concentration	0,0755	mg/kg

**n-butyl acetate**

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

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

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

Type of value	PNEC	
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

**ethanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,96	mg/l

Type of value	PNEC	
Type	marine water	
Concentration	0,79	mg/l

Type of value	PNEC	
Conditions	sporadic release	
Concentration	2,75	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	580	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	3,6	mg/kg

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Type of value	PNEC	
Type	saltwater sediment	
Concentration	2,9	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,63	mg/kg

**toluene**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,68	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	16,39	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	2,89	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	13,61	mg/l

**zinc powder — zinc dust (pyrophoric)**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0206	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	117,8	mg/kg

Type of value	PNEC	
Type	marine water	
Concentration	0,0061	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	35,6	mg/kg

Type of value	PNEC	
Type	saltwater sediment	
Concentration	56,5	mg/kg

**aluminium powder (stabilised)**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0749	mg/l



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	20	mg/l
<b>copper</b>		
Type of value	PNEC	
Type	Soil	
Concentration	65,5	mg/kg
Type of value	PNEC	
Type	Freshwater	
Concentration	0,0078	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	87	mg/kg
Type of value	PNEC	
Type	marine water	
Concentration	0,0052	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,230	mg/l

## 8.2. Exposure controls

### Exposure controls

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

### Respiratory protection

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

### Hand protection

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.

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

### 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

<b>Physical state</b>	liquid
<b>Colour</b>	coloured
<b>Odour</b>	solvent-like
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Boiling point or initial boiling point and boiling range</b>	
Value	55,8 to 217 °C
<b>Flammability</b>	
Remarks	not determined
<b>Upper and lower explosive limits</b>	
Remarks	not determined
<b>Flash point</b>	
Value	< 21 °C
<b>Auto-ignition temperature</b>	
Remarks	not determined
<b>Decomposition temperature</b>	
Remarks	not determined
<b>pH value</b>	
Remarks	Not applicable
<b>Viscosity</b>	
Remarks	not determined
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient n-octanol/water (log value)</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Density and/or relative density</b>	
Value	appr. 1,034 kg/l
Temperature	20 °C
<b>Relative vapour density</b>	
Remarks	not determined
<b>Particle characteristics</b>	
Remarks	not determined

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

## 9.2. Other information

### Odour threshold

Remarks not determined

### Evaporation rate

Remarks not determined

### Solubility in water

Remarks not determined

### Efflux time

Value 36 to 44 s  
Temperature 20 °C  
Method DIN 53211 4 mm

### Explosive properties

evaluation not determined

### Oxidising properties

Remarks not determined

### Non-volatile content

Value appr. 35 %  
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.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

### Acute oral toxicity (Components)

#### zinc powder — zinc dust (pyrophoric)

Species	rat	
LD50	>	2000 mg/kg
Method	Limited Test	

#### copper

Species	rat	
LD50		482 mg/kg
Method	OECD 401	

### 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.

### Acute inhalative toxicity (Components)

#### zinc powder — zinc dust (pyrophoric)

Species	rat	
LC50	>	5,41 mg/l
Duration of exposure	4	h
Method	Limited Test	
Remarks	Mist	

### 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)

#### toluene

Species	rabbit	
Duration of exposure	4	h
Observation Period	7	d
evaluation	Irritating to skin.	
Method	EEC 84/449, B.4	
Source	1 (reliable without restriction)	

#### zinc powder — zinc dust (pyrophoric)

evaluation	No skin irritation
------------	--------------------

### 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)

#### acetone

Species	rabbit	
Observation Period	24	h
evaluation	Irritating to eyes.	
Source	1 (reliable without restriction)	

#### ethyl acetate

Species	rabbit	
Observation Period	24	h

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

**zinc powder — zinc dust (pyrophoric)**

evaluation No eye irritation

**copper**

evaluation Irritating to eyes.

**Sensitization**

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

**Sensitization (Components)**

**zinc powder — zinc dust (pyrophoric)**

evaluation No sensitizing effects known.

**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)**

**toluene**

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 drowsiness or dizziness.

**Repeated exposure**

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

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

**acetone**

**Specific target organ toxicity - repeated exposure**

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

**ethyl acetate**

**Specific target organ toxicity - single exposure**

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

**isobutyl acetate**

**Specific target organ toxicity - repeated exposure**

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

**n-butyl acetate**

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

#### Specific target organ toxicity - repeated exposure

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

#### toluene

#### Specific target organ toxicity - single exposure

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

#### toluene

#### 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).

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

#### Specific target organ toxicity - repeated exposure

evaluation  
May cause drowsiness or dizziness.  
Organs: Nervous system

#### 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	

##### zinc powder — zinc dust (pyrophoric)

Species	Cottus bairdii		
LC50	0,439		mg/l
Duration of exposure	96	h	

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

**zinc powder — zinc dust (pyrophoric)**

Species	Jordanella floridae	
NOEC	0,075	mg/l
Duration of exposure	30	d

**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

**zinc powder — zinc dust (pyrophoric)**

Species	Daphnia magna (Water flea)	
EC50	0,416	mg/l
Duration of exposure	48	h

**zinc powder — zinc dust (pyrophoric)**

Species	Daphnia magna (Water flea)	
NOEC	0,025	mg/l
Duration of exposure	7	d

**copper**

Species	Daphnia magna (Water flea)	
NOEC	0,013	mg/l
Duration of exposure	63	h

**copper**

Species	Daphnia magna (Water flea)	
EC50	0,792	mg/l
Duration of exposure	48	h

**Algae toxicity (Components)**

**Hydrocarbons, C9, aromatics**

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

**12.2. Persistence and degradability**

**General information**

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

**Biodegradability (Components)**

**Hydrocarbons, C9, aromatics**

evaluation Readily biodegradable.

**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



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

## 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 Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

	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	640C		
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
----------	-----	------------------	-----------	----	------------	----

#### VOC

VOC (EU)	64	%	658	g/l
----------	----	---	-----	-----

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

## 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.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
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

Acute Tox. 4	Acute toxicity, Category 4
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 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.

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)

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

### 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.  
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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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.

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

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

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

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

### Body protection

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

## Exposure estimation and reference to its source

#### Workers (industrial)

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - local and systemic
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 (industrial)

SU	SU3
PROC	PROC7
Assessment method	dermal, long-term - local and systemic
Exposure assessment	2,14 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,01

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Lead substance

2-methoxy-1-methylethyl acetate

**Workers (industrial)**

SU

SU3

PROC

PROC10

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 (industrial)**

SU

SU3

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 (industrial)**

SU

SU3

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 (industrial)**

SU

SU3

PROC

PROC13

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 (industrial)**

SU

SU3

PROC

PROC7

Assessment method

inhalation, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

200 mg/m<sup>3</sup>

Risk characterisation ratio (RCR)

ECETOC TRA

Lead substance

0,05

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC7

Assessment method

dermal, long-term - systemic

Exposure assessment

Indoor use

Exposure assessment (method)

62 mg/kg/d

Risk characterisation ratio (RCR)

ECETOC TRA

0,01

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Lead substance

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Indoor use

Exposure assessment

200 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,5

Lead substance

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC10

Assessment method

dermal, long-term - systemic

Indoor use

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,15

Lead substance

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Indoor use

Exposure assessment

200 mg/m<sup>3</sup>

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,5

Lead substance

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC13

Assessment method

dermal, long-term - systemic

Indoor use

Exposure assessment

61 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,074

Lead substance

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC7

Assessment method

dermal, long-term - systemic

Exposure assessment

63 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,034

Lead substance

ethyl acetate

**Workers (industrial)**

SU

SU3

PROC

PROC7

Assessment method

inhalation, long-term - local

Exposure assessment

734 mg/m<sup>3</sup>



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

ECETOC TRA  
0,075  
ethyl acetate

**Workers (industrial)**

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

SU3  
PROC10  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,011  
ethyl acetate

**Workers (industrial)**

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

SU3  
PROC10  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
ECETOC TRA  
0,075  
ethyl acetate

**Workers (industrial)**

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

PROC7  
inhalation, long-term - local and systemic  
Indoor use  
60,5 mg/m<sup>3</sup>  
ECETOC TRA  
0,126  
isobutyl acetate

**Workers (industrial)**

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

PROC10  
inhalation, long-term - local and systemic  
Indoor use  
242 mg/m<sup>3</sup>  
ECETOC TRA  
0,504  
isobutyl acetate

**Workers (industrial)**

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

PROC13  
inhalation, long-term - local and systemic  
Indoor use  
242 mg/m<sup>3</sup>  
ECETOC TRA  
0,504  
isobutyl acetate

**Workers (industrial)**

PROC  
Assessment method  
  
Exposure assessment  
Exposure assessment (method)  
Risk characterisation ratio (RCR)

PROC7  
inhalation, long-term - local and systemic  
Indoor use  
60,5 mg/m<sup>3</sup>  
ECETOC TRA  
0,126

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Lead substance

n-butyl acetate

**Workers (industrial)**

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

n-butyl acetate

**Workers (industrial)**

PROC

PROC10

Assessment method

inhalation, long-term - systemic

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

n-butyl acetate

**Workers (industrial)**

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

n-butyl acetate

**Workers (industrial)**

PROC

PROC13

Assessment method

inhalation, long-term - systemic

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

n-butyl 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.

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

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

ES003 - Professional uses: Non industrial spraying (inside)

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

Surface treatment of wood and other materials

### **Use**

SU22

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

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC11	Non industrial spraying

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

### **Use**

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

**Physical form** liquid

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

Emission days per site: <= 250

### **Other relevant operational conditions**

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

### **Waste water**

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

### **Exhaust air**

Keep container closed. Avoid release to the environment.

### **Soil**

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

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

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

### **Disposal recommendations for packaging**

Completely emptied packagings can be given for recycling.

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

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

Substance number:CES006

### **Use**

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.

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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
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
----	------

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

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

PROC10  
inhalation, long-term - local and systemic  
137,71 mg/m<sup>3</sup>  
ECETOC TRA  
0,5  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

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

SU22  
PROC10  
dermal, long-term - local and systemic  
27,43 mg/kg/d  
ECETOC TRA  
0,18  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

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

SU22  
PROC11  
inhalation, long-term - local and systemic  
Indoor use  
27,54 mg/m<sup>3</sup>  
ECETOC TRA  
0,1  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

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

SU22  
PROC11  
dermal, long-term - local and systemic  
Indoor use  
2,14 mg/kg/d  
ECETOC TRA  
0,01  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

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

SU22  
PROC11  
inhalation, long-term - local and systemic  
Outdoor use  
55,08 mg/m<sup>3</sup>  
ECETOC TRA  
0,2  
2-methoxy-1-methylethyl acetate

**Workers (professional)**

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

SU22  
PROC11  
dermal, long-term - local and systemic  
Outdoor use  
107,14 mg/kg/d  
ECETOC TRA  
0,7  
2-methoxy-1-methylethyl acetate  
SU21

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	6 mg/kg/d
Exposure assessment (method)	ConsExpo v4.1
Risk characterisation ratio (RCR)	0,11
Lead substance	2-methoxy-1-methylethyl acetate
SU	SU21
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	6,83 mg/m <sup>3</sup>
Exposure assessment (method)	ConsExpo v4.1
Risk characterisation ratio (RCR)	0,6
Lead substance	2-methoxy-1-methylethyl acetate

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	200 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,6
Lead substance	acetone

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	62 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,15
Lead substance	acetone

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
Exposure assessment	200 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,4
Lead substance	acetone

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
Exposure assessment	62 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,01
Lead substance	acetone

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
Exposure assessment	200 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA

Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Risk characterisation ratio (RCR) 0,5  
Lead substance acetone

**Workers (professional)**

SU SU22  
PROC PROC13  
Assessment method dermal, long-term - systemic  
Exposure assessment 62 mg/kg/d  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,07  
Lead substance acetone

**Workers (professional)**

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

**Workers (professional)**

SU SU22  
PROC PROC10  
Assessment method inhalation, long-term - local  
Exposure assessment 734 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,018  
Lead substance ethyl acetate

**Workers (professional)**

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

**Workers (professional)**

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

**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



Trade name: Hesse Metallic Structure lacquer, matt PEX DB 46732-FT

Version: 17 / WORLD

Revision: 06.07.2025

Replaces Version: 16 / WORLD

Print date: 07.11.25

Lead substance

isobutyl acetate

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

inhalation, long-term - local and systemic

Outdoor use

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

isobutyl acetate

**Workers (professional)**

SU

SU22

PROC

PROC11

Assessment method

Long-term

inhalative

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,504

Lead substance

n-butyl acetate

## **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.