

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

### 1.1. Product identifier

Hesse CREATIVE-METALLIC, matt PEX DB 46552-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  
Testphrase

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

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 CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

### Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

### Further supplemental information

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

## 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		

#### 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		

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Asp. Tox. 1	H304	
Aquatic Chronic 2	H411	
STOT SE 3	H335	Respiratory tract
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	
Concentration	>= 1	< 10 %
Classification (Regulation (EC) No. 1272/2008)		
Flam. Liq. 3	H226	
STOT SE 3	H336	

**ethyl acetate**

CAS No.	141-78-6	
EINECS no.	205-500-4	
Registration no.	01-2119475103-46	
Concentration	>= 1	< 5 %
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	< 4 %
Classification (Regulation (EC) No. 1272/2008)		
Flam. Liq. 2	H225	
Eye Irrit. 2	H319	
STOT SE 3	H336	Nervous system
	EUH066	

**copper metal powder**

CAS No.	7440-50-8	
EINECS no.	231-159-6	
Registration no.	01-2119480154-42	
Concentration	>= 1	< 10 %

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

Aquatic Acute 1	H400
Aquatic Chronic 3	H412

**toluene**

CAS No.	108-88-3
EINECS no.	203-625-9
Registration no.	01-2119471310-51
Concentration	>= 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	>= 0,1 < 0,3 %
Classification (Regulation (EC) No. 1272/2008)	

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

**Amines, C16-18-alkyldimethyl**

CAS No.	68390-97-6
EINECS no.	269-915-2
Registration no.	01-2119970967-16
Concentration	>= 0,001 < 0,1 %
Classification (Regulation (EC) No. 1272/2008)	

Acute Tox. 4	H302
Skin Corr. 1B	H314
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Eye Dam. 1	H318

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400	M = 100
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**Amines, C12-16-alkyldimethyl**

CAS No.	68439-70-3
EINECS no.	270-414-6
Registration no.	01-2119970968-14
Concentration	>= 0,001 < 0,1 %
Classification (Regulation (EC) No. 1272/2008)	

Acute Tox. 4	H302
Skin Corr. 1B	H314
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Concentration limits (Regulation (EC) No. 1272/2008)

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Aquatic Acute 1 H400 M = 100

### 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

### 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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

### Hints for the physician / treatment

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Non suitable extinguishing media

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

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

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

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

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

#### Other information

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

## SECTION 6: Accidental release measures

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

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

### 6.2. Environmental precautions

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

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

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

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

### Advice on protection against fire and explosion

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

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

### Requirements for storage rooms and vessels

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

### Hints on storage assembly

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

### Storage classes

Storage class according to TRGS 510      3      Flammable liquid

### Further information on storage conditions

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

## 7.3. Specific end use(s)

See exposure scenario, if available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

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

List	GV (DK)			
Value	275	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensitisation: H; Status: 11/2021				

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

List	Directive 2017/164 EG			
Value	275	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	550	mg/m <sup>3</sup>	100	ppm(V)
Status: 12/2009				

##### acetone

List	GV (DK)			
Value	600	mg/m <sup>3</sup>	250	ppm(V)
Status: 11/2021				

##### acetone

List	Directive 2017/164 EG			
Value	1210	mg/m <sup>3</sup>	500	ppm(V)
Status: 12/2009				

##### ethyl acetate

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

**ethyl acetate**

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

**isobutyl acetate**

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

**isobutyl acetate**

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

**n-butyl acetate**

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

**n-butyl acetate**

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

**ethanol**

List	GV (DK)			
Value	1900	mg/m <sup>3</sup>	1000	ppm(V)
Status:	11/2021			

**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



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

**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	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Concentration	62	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Long-term
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Route of exposure	Dermal exposure
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Mode of action	Systemic effects
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Concentration	62	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Long-term
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Route of exposure	inhalative
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Mode of action	Systemic effects
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Concentration	200	mg/m³
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**ethyl acetate**

Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (professional)
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Duration of exposure	Long-term
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Route of exposure	Dermal exposure
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Mode of action	Systemic effects
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Concentration	63	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (professional)
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Duration of exposure	Long-term
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Route of exposure	inhalative
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Mode of action	Systemic effects
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Concentration	734	mg/m³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (professional)
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Duration of exposure	Long-term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	734	mg/m³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (professional)
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Duration of exposure	Short-term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	1468	mg/m³
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (professional)
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Duration of exposure	Short-term
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Route of exposure	inhalative
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Mode of action	Systemic effects
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Concentration	1468	mg/m³
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Type of value	Derived No Effect Level (DNEL)
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Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	734	mg/m <sup>3</sup>

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	37	mg/kg/d

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	4,5	mg/kg/d

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

**isobutyl acetate**

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

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	600	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

**ethanol**

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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/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	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/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	Acute effects	
Concentration	960	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	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/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	87	mg/kg/d

**toluene**

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	343	mg/m³
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/m³
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/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	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/m³
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/m³
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	56,5	mg/m³



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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	
Concentration	32	mg/kg

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

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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>

**Amines, C16-18-alkyldimethyl**

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	1	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	inhalative	
Mode of action	Local effects	
Concentration	mg/m <sup>3</sup>	

**Amines, C12-16-alkyldimethyl**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Mode of action	Local effects	
Concentration	1	mg/m <sup>3</sup>

### 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

#### acetone

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	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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  
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

**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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

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

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

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

**n-butyl acetate**

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

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

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

Type of value	PNEC	
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	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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
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	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Type	Soil	
Concentration	35,6	mg/kg

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

**Amines, C16-18-alkyldimethyl**

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

Type of value	PNEC	
Type	Saltwater	
Concentration	0,003	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	130	µg/l

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

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

Type of value	PNEC	
Type	Soil	
Concentration	1	mg/kg

**Amines, C12-16-alkyldimethyl**

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

Type of value	PNEC	
Type	Saltwater	
Concentration	0,03	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	130	µg/l

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

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Type of value	PNEC	
Type	Soil	
Concentration	1	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

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness  $\geq$  0,7 mm

Breakthrough time  $\geq$  30 min

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

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

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

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

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

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

### Eye protection

Wear eye glasses with side protection according to EN 166.

### Body protection

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

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	liquid
<b>Colour</b>	coloured
<b>Odour</b>	solvent-like

### Melting point

Remarks not determined

### Freezing point

Remarks not determined

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

Value 55,8 to 217 °C



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

### Flammability

not determined

### Upper and lower explosive limits

Remarks not determined

### Flash point

Value < 21 °C

### Ignition temperature

Remarks not determined

### Decomposition temperature

Remarks not determined

### Viscosity

Remarks not determined

### Solubility(ies)

Remarks not determined

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

Remarks not determined

### Vapour pressure

Remarks not determined

### Density and/or relative density

Value appr. 1,05 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 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. 26,8 %

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

## 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

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

#### Acute oral toxicity (Components)

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

Species	rat	
LD50	> 2000	mg/kg
Method	Limited Test	

##### Amines, C16-18-alkyldimethyl

Species	rat	
LD50	1450	mg/kg
Method	OECD 401	

##### Amines, C12-16-alkyldimethyl

Species	rat	
LD50	1450	mg/kg

#### 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)

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

**aluminium powder (stabilised)**

Species	rat		
LC50	>	5	mg/l
Duration of exposure	4	h	
Remarks	Mist		

**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
------------	--------------------

**Amines, C16-18-alkyldimethyl**

Species	rabbit
evaluation	Causes burns.

**Amines, C12-16-alkyldimethyl**

Species	rabbit
evaluation	Causes burns.

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

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

evaluation	No eye irritation
------------	-------------------

**Amines, C16-18-alkyldimethyl**

**Amines, C12-16-alkyldimethyl**

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

## 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.
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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
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### acetone

#### Specific target organ toxicity - repeated exposure

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

#### Specific target organ toxicity - single exposure

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

#### Specific target organ toxicity - repeated exposure

Remarks	Organs: Nervous system Possible narcotic effects (drowsiness, dizziness).
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### n-butyl acetate

#### Specific target organ toxicity - repeated exposure

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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).

#### Aspiration hazard

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

## 11.2 Information on other hazards

### 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	

##### 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	

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

#### 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

#### Amines, C16-18-alkyldimethyl

Species	Daphnia magna (Water flea)	
NOEC	0,036	mg/l
Duration of exposure	21	d

#### Amines, C12-16-alkyldimethyl

Species	Daphnia magna (Water flea)	
NOEC	0,036	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

#### Amines, C16-18-alkyldimethyl

Species	Desmodesmus subspicatus	
EC50	0,0099	mg/l
Duration of exposure	72	h
Method	OECD 201	

#### Amines, C12-16-alkyldimethyl

Species	Desmodesmus subspicatus	
EC50	0,0099	mg/l
Duration of exposure	72	h
Method	OECD 201	

## 12.2. Persistence and degradability

### General information

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

### Biodegradability (Components)

#### Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

#### Amines, C16-18-alkyldimethyl

Value	> 75	%
Duration of test	28	d
evaluation	Readily biodegradable.	

#### Amines, C12-16-alkyldimethyl

Value	> 75	%
Duration of test	28	d

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

### 12.3. Bioaccumulative potential

#### General information

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

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

Remarks not determined

### 12.4. Mobility in soil

#### General information

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

#### Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

#### General information

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

### 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

EWC waste code	080111 - waste paint and varnish containing organic solvents or other dangerous substances
EWC waste code	200127 - paint, inks, adhesives and resins containing dangerous substances

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

#### modified product

EWC waste code	080113 - sludges from paint or varnish containing organic solvents or other dangerous substances
EWC waste code	080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

#### Dried residues

EWC waste code	080112 - waste lacquers and waste paint except those falling under 080111
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#### Disposal recommendations for packaging

EWC waste code	150110 - packaging containing residues of or contaminated
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Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK




Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Completely emptied packagings can be given for recycling.  
by dangerous substances

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	5 l		
Transport category	2		

## SECTION 15: Regulatory information

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

#### VOC

VOC (EU) 73 % 700 g/l

#### MAL-Code

MAL-Code 3-1  
MAL 1.050,06 m³/l

### 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.



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H412	Harmful 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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
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

### **Abbreviations**

Flam. Liq - Flammable liquids  
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG - International Maritime Code for Dangerous Goods  
IATA - International Air Transport Association  
IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS - European Inventory of Existing Commercial Chemical Substances  
CAS - Chemical Abstracts Service (division of the American Chemical Society)  
GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL - Lowest Observed Adverse Effect Level  
LOEL - Lowest Observed Effect Level  
NOAEL - No Observed Adverse Effect Level  
NOEC - No Observed Effect Concentration  
NOEL - No Observed Effect Level  
OECD - Organisation for Economic Cooperation and Development  
VOC - Volatile Organic Compounds  
Changes since the last version are highlighted in the margin (\*\*\*). This version replaces all previous versions.  
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Print date: 13.01.23

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

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

EWC waste code	080111 - waste paint and varnish containing organic solvents or other dangerous substances 200127 - paint, inks, adhesives and resins containing dangerous substances
----------------	--

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

### **modified product**

EWC waste code

080113 - sludges from paint or varnish containing organic solvents or other dangerous substances

080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

### **Dried residues**

EWC waste code

080112 - waste lacquers and waste paint except those falling under 080111

### **Disposal recommendations for packaging**

EWC waste code

150110 - packaging containing residues of or contaminated by dangerous substances

Completely emptied packagings can be given for recycling.

## **Contributing exposure scenario controlling worker exposure**

### **Use**

SU3

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

PROC7

Industrial spraying

### **Physical form**

liquid

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

Duration of exposure

<= 8 h/d

Frequency of exposure

<= 220 d/a

### **Other relevant operational conditions**

Use: Room temperature

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

Read attached instructions before use.

### **Product substance and product safety related measures**

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

### **Respiratory protection**

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

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

### **Hand protection**

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material

Fluorinated rubber / butyl-rubber

Material thickness

>= 0,7

Breakthrough time

>= 30

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

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

The instructions and information provided by the glove manufacturer on use, storage, maintenance and

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

replacement must be followed.

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

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

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

### Eye protection

Wear eye glasses with side protection according to EN 166.

### Body protection

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

## Exposure estimation and reference to its source

### Workers (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
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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

Indoor use

Exposure assessment

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

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,05

Lead substance

acetone

**Workers (industrial)**

SU

SU3

PROC

PROC7

Assessment method

dermal, long-term - systemic

Indoor use

Exposure assessment

62 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,01

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

Indoor use  
200 mg/m<sup>3</sup>  
ECETOC TRA  
0,5  
acetone

**Workers (industrial)**

SU  
PROC  
Assessment method

SU3  
PROC13  
dermal, long-term - systemic  
Indoor use

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

61 mg/kg/d  
ECETOC TRA  
0,074  
acetone

**Workers (industrial)**

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

SU3  
PROC7  
dermal, long-term - systemic  
63 mg/kg/d  
ECETOC TRA  
0,034  
ethyl acetate

**Workers (industrial)**

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

SU3  
PROC7  
inhalation, long-term - local  
734 mg/m<sup>3</sup>  
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

PROC7  
inhalation, long-term - local and systemic  
Indoor use

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Exposure assessment 60,5 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,126  
Lead substance isobutyl acetate

**Workers (industrial)**

PROC PROC10  
Assessment method inhalation, long-term - local and systemic  
Indoor use

Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,504  
Lead substance isobutyl acetate

**Workers (industrial)**

PROC PROC13  
Assessment method inhalation, long-term - local and systemic  
Indoor use

Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,504  
Lead substance isobutyl acetate

**Workers (industrial)**

PROC PROC7  
Assessment method inhalation, long-term - local and systemic  
Indoor use

Exposure assessment 60,5 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,126  
Lead substance n-butyl acetate

**Workers (industrial)**

PROC PROC10  
Assessment method inhalation, long-term - systemic  
Indoor use

Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,504  
Lead substance n-butyl acetate

**Workers (industrial)**

PROC PROC10  
Assessment method inhalation, long-term - systemic  
Outdoor use

Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA  
Risk characterisation ratio (RCR) 0,504  
Lead substance n-butyl acetate

**Workers (industrial)**

PROC PROC13  
Assessment method inhalation, long-term - systemic  
Indoor use

Exposure assessment 242 mg/m<sup>3</sup>  
Exposure assessment (method) ECETOC TRA



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

Risk characterisation ratio (RCR)	0,504
Lead substance	n-butyl acetate
<b>Workers (industrial)</b>	
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	242 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
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)
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.



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

### Exhaust air

Keep container closed. Avoid release to the environment.

### Soil

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

### Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic solvents  
or other dangerous substances  
200127 - paint, inks, adhesives and resins containing  
dangerous substances

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

### modified product

EWC waste code 080113 - sludges from paint or varnish containing organic  
solvents or other dangerous substances  
080115 - aqueous sludges containing paint or varnish  
containing organic solvents or other dangerous substances

### Dried residues

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

### Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated  
by dangerous substances  
Completely emptied packagings can be given for recycling.

## Contributing exposure scenario controlling worker exposure (professional)

### Short title of the exposure scenario

Substance number:CES006

### Use

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

PROC11 Non industrial spraying

### Physical form

liquid

### Maximum amount used per time or activity

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

### Other relevant operational conditions

Use: Room temperature

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

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

### Product substance and product safety related measures

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

### Respiratory protection

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

### Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness  $\geq$  0,7

Breakthrough time  $\geq$  30

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

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

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

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

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

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

### Eye protection

Wear eye glasses with side protection according to EN 166.

### Body protection

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

## 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
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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

PROC

PROC11

Assessment method

dermal, long-term - local and systemic

Outdoor use

Exposure assessment

107,14 mg/kg/d

Exposure assessment (method)

ECETOC TRA

Risk characterisation ratio (RCR)

0,7

Lead substance

2-methoxy-1-methylethyl acetate

SU

SU21

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

Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

**Workers (professional)**

SU	SU22
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Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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

PROC13  
dermal, long-term - systemic  
62 mg/kg/d  
ECETOC TRA  
0,07  
acetone

**Workers (professional)**

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

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

**Workers (professional)**

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

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

**Workers (professional)**

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

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

**Workers (professional)**

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

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

**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  
242 mg/m<sup>3</sup>  
ECETOC TRA  
0,504  
isobutyl acetate

**Workers (professional)**

SU  
PROC

SU22  
PROC11



Trade name: Hesse CREATIVE-METALLIC, matt PEX DB 46552-FT

Version: 10 / DK

Revision: 02.06.2022

Replaces Version: 9 / DK

Print date: 13.01.23

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.