

Trade name: Hesse CREATIVE-METALLIC DB 46555-MC01

Version: 16 / WORLD

Revision: 12.03.2020

Replaces Version: 15 / WORLD

Print date: 12.03.20

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Hesse CREATIVE-METALLIC DB 46555-MC01

### 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  
 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

## 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
Eye Irrit. 2	H319
Repr. 2	H361d
STOT SE 3	H336

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

### 2.2. Label elements

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

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H361d Suspected of damaging the unborn child.  
 H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.

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

contains toluene; 2-methylpropan-1-ol; acetone; ethyl acetate

### Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

## 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	>= 20	< 25		%
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3 STOT SE 3	H226 H336 EUH066		Nervous system

#### ethyl acetate

CAS No.	141-78-6			
EINECS no.	205-500-4			
Registration no.	01-2119475103-46			
Concentration	>= 10	< 20		%
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 2 Eye Irrit. 2	H225 H319		

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	STOT SE 3	H336 EUH066	Nervous system
<b>isobutyl acetate</b>			
CAS No.	110-19-0		
EINECS no.	203-745-1		
Registration no.	01-2119488971-22		
Concentration	>= 10	< 20	%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	STOT SE 3	H336 EUH066	Nervous system
<b>acetone</b>			
CAS No.	67-64-1		
EINECS no.	200-662-2		
Registration no.	01-2119471330-49		
Concentration	>= 10	< 20	%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
	STOT SE 3	H336 EUH066	Nervous system
<b>toluene</b>			
CAS No.	108-88-3		
EINECS no.	203-625-9		
Registration no.	01-2119471310-51		
Concentration	>= 3	< 5	%
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
<b>xylene</b>			
CAS No.	1330-20-7		
EINECS no.	215-535-7		
Registration no.	01-2119488216-32		
Concentration	>= 1	< 3	%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 3	H226	
	Acute Tox. 4	H332	Route of exposure: Inhalation exposure
	Acute Tox. 4	H312	Route of exposure: Dermal exposure
	Skin Irrit. 2	H315	
	Asp. Tox. 1	H304	
	STOT SE 3	H335	Respiratory tract
	Eye Irrit. 2	H319	

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**Hydrocarbons, C9, aromatics**

EINECS no.	918-668-5			
Registration no.	01-2119455851-35			
Concentration	>= 1	< 3		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	Asp. Tox. 1	H304		
	Aquatic Chronic 2	H411		
	STOT SE 3	H335		Respiratory tract
	STOT SE 3	H336		Nervous system
		EUH066		

**Naphtha (petroleum), hydrotreated heavy**

CAS No.	64742-48-9			
EINECS no.	265-150-3			
Registration no.	01-2119457273-39			
Concentration	>= 1	< 10		%
Classification (Regulation (EC) No. 1272/2008)				
	Asp. Tox. 1	H304		

**2-methylpropan-1-ol**

CAS No.	78-83-1			
EINECS no.	201-148-0			
Registration no.	01-2119484609-23			
Concentration	>= 1	< 2		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	STOT SE 3	H335		Respiratory tract
	Skin Irrit. 2	H315		
	Eye Dam. 1	H318		
	STOT SE 3	H336		Nervous system

**Further ingredients****aluminium powder (stabilised)**

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

**Note**

[3] Substance with occupational exposure limits

**4. First aid measures****4.1. Description of first aid measures****General information**

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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.

**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.

**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.

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## 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.

# 7. Handling and storage

## 7.1. Precautions for safe handling

### Advice on safe handling

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

### Advice on protection against fire and explosion

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

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

### Requirements for storage rooms and vessels

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

### Hints on storage assembly

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

### Storage classes

Storage class according to TRGS 510      3      Flammable liquid

### Further information on storage conditions

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

## 7.3. Specific end use(s)

See exposure scenario, if available.

# 8. Exposure controls/personal protection \*\*\*

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## 8.1. Control parameters

### Other information

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

#### 2-methylpropan-1-ol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	310	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	55	mg/m <sup>3</sup>

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

#### 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	

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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
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>
<b>ethyl 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	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>



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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	
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)

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Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	10	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
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>

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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>

**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	

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Duration of exposure Long-term  
 Route of exposure Dermal exposure  
 Mode of action Systemic effects  
 Concentration 6 mg/kg/d

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long-term  
 Route of exposure Oral exposure  
 Mode of action Systemic effects  
 Concentration 2 mg/kg/d

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

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

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 35,7 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 35,7 mg/m<sup>3</sup>

**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

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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	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	56,5	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	226	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

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Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	8,13	mg/kg/d

**xylene**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	108	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	180	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	14,8	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	174	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	174	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	77	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	

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Concentration 77 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 289 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Local effects

Concentration 289 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 1,6 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term

Route of exposure Dermal exposure

Mode of action Local effects

Concentration 174 mg/kg/d

**Hydrocarbons, C9, aromatics**

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 11 mg/kg

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)

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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

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

**2-methylpropan-1-ol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,4	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,04	mg/l

Type of value	PNEC	
Conditions	sporadic release	
Concentration	11	mg/l

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,52	mg/kg

Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,152	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,0699	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

**acetone**

Type of value	PNEC	
Type	Freshwater	
Concentration	10,6	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	1,06	mg/l



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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	
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

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Type of value	PNEC		
Type	Saltwater		
Concentration	0,017		mg/l
Type of value	PNEC		
Type	Water		
Conditions	sporadic release		
Concentration	0,34		mg/l
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	200		mg/l
Type of value	PNEC		
Type	Fresh water sediment		
Concentration	0,877		mg/kg
Type of value	PNEC		
Type	saltwater sediment		
Concentration	0,0877		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0,0755		mg/kg
<b>n-butyl acetate</b>			
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		

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Type Concentration	Soil	0,0903	mg/kg
<b>toluene</b>			
Type of value Type Concentration	PNEC Freshwater	0,68	mg/l
Type of value Type Concentration	PNEC Fresh water sediment	16,39	mg/kg
Type of value Type Concentration	PNEC Soil	2,89	mg/kg
Type of value Type Concentration	PNEC Sewage treatment plant (STP)	13,61	mg/l
<b>xylene</b>			
Type of value Type Concentration	PNEC Freshwater	0,327	mg/l
Type of value Type Concentration	PNEC Saltwater	0,327	mg/l
Type of value Type Concentration	PNEC Fresh water sediment	12,46	mg/kg
Type of value Type Concentration	PNEC saltwater sediment	12,46	mg/kg
Type of value Type Concentration	PNEC Soil	2,31	mg/kg
Type of value Type Concentration	PNEC Sewage treatment plant (STP)	6,58	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.

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### 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.

## 9. Physical and chemical properties

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

<b>Form</b>	liquid
<b>Colour</b>	coloured
<b>Odour</b>	solvent-like
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Remarks	not determined
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Value	55,8 to 214 °C
<b>Flash point</b>	
Value	-2 °C
<b>Evaporation rate</b>	
Remarks	not determined

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**Flammability (solid, gas)**

not determined

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**

Value	appr. 0,948			kg/l
Temperature	20	°C		

**Solubility in water**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**Viscosity**

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

**9.2. Other information****Non-volatile content**

Value	26,5	%
Method	calculated value	

**Other information**

This information is not available.

**10. Stability and reactivity****10.1. Reactivity**

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

**10.2. Chemical stability**

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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.**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

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

**Acute dermal toxicity**

ATE	> 10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

**Acute dermal toxicity (Components)****xylene**

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

**Acute inhalational toxicity**

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

**Acute inhalative toxicity (Components)****xylene**

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

**aluminium powder (stabilised)**

Species	rat	
LC50	> 5	mg/l
Duration of exposure	4	h
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)**

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**2-methylpropan-1-ol**

Species	rabbit
Duration of exposure	8 d
Observation Period evaluation	24 h
Method	Skin irritation
Source	Value taken from the literature 2 (reliable with restrictions)

**toluene**

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

**xylene**

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

**Serious eye damage/irritation**

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

**Serious eye damage/irritation (Components)****2-methylpropan-1-ol**

Species	rabbit
Observation Period evaluation	14 d
Source	irritant - risk of serious damage to eyes 1 (reliable without restriction)

**acetone**

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

**ethyl acetate**

Species	rabbit
Observation Period evaluation	24 h
Source	Irritating to eyes. 2 (reliable with restrictions)

**xylene**

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

**Sensitization**

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

**Mutagenicity**

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

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**Reproductive toxicity**

evaluation Suspected of damaging the unborn child.  
 Method Calculation method (Regulation (EC) No. 1272/2008)  
 Remarks The classification criteria are 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)****2-methylpropan-1-ol****Specific target organ toxicity - single exposure**

Remarks Organs: Respiratory tract  
 May cause respiratory irritation.

**2-methylpropan-1-ol****Specific target organ toxicity - single exposure**

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

**acetone****Specific target organ toxicity - repeated exposure**

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

**ethyl acetate****Specific target organ toxicity - single exposure**

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

**isobutyl acetate****Specific target organ toxicity - repeated exposure**

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

**n-butyl acetate****Specific target organ toxicity - repeated exposure**

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

**toluene****Specific target organ toxicity - single exposure**



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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).

**xylene****Specific target organ toxicity - single exposure**

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

**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.

**Other information**

No toxicological data are available.

**12. Ecological information****12.1. Toxicity****General information**

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

**Fish toxicity (Components)****Hydrocarbons, C9, aromatics**

Species	Oncorhynchus mykiss (rainbow trout)		
LC50	9,2		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****Hydrocarbons, C9, aromatics**

Species	Daphnia magna (Water flea)		
EC50	3,2		mg/l
Duration of exposure	48	h	

**Hydrocarbons, C9, aromatics**

Species	Daphnia magna (Water flea)		
NOEC	2,14		mg/l
Duration of exposure	21	d	

**Algae toxicity (Components)****Hydrocarbons, C9, aromatics**

Species	Pseudokirchneriella subcapitata (green algae)		
EC50	2,6	to	2,9 mg/l

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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

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. 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.

## 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.

## 14. Transport information




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

## 15. Regulatory information

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

#### VOC

VOC (EU) 73,5 % 696 g/l

#### Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the IECSC inventory.

### 15.2. Chemical safety assessment

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

## 16. Other information

### Hazard statements listed in Chapter 3

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

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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.
H411	Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**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.

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

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

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

**Annex to the extended Safety Data Sheet (eSDS)****Short title of the exposure scenario**

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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  
Frequency of exposure <= 220 d/a

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**Other relevant operational conditions**

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

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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
<b>Workers (industrial)</b>	
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
<b>Workers (industrial)</b>	
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
<b>Workers (industrial)</b>	
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
<b>Workers (industrial)</b>	
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
<b>Workers (industrial)</b>	
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)**



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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  
  
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

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



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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	
<b>Workers (industrial)</b>		
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	
<b>Workers (industrial)</b>		
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	
<b>Workers (industrial)</b>		
PROC	PROC13	
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	
<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	
<b>Workers (industrial)</b>		
SU	SU3	
PROC	PROC7	
Assessment method	inhalative	
	Indoor use	
Exposure assessment	0,1	mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA	
Risk characterisation ratio (RCR)	0,34	
Lead substance	xylene	
<b>Workers (industrial)</b>		
SU	SU3	
PROC	PROC10	
Assessment method	inhalative	
	Indoor use	
Exposure assessment	0,05	mg/m <sup>3</sup>

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Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,172
Lead substance	xylene
<b>Workers (industrial)</b>	
SU	SU3
PROC	PROC13
Assessment method	inhalative
	Indoor use
Exposure assessment	0,1 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,34
Lead substance	xylene

## **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

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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  
liquid

**Physical form****Maximum amount used per time or activity**

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

**Other relevant operational conditions**

Use: Room temperature  
Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Volatile organic substances will volatilise into the atmospheric air inside.  
Read attached instructions before use.

**Product substance and product safety related measures**

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

**Respiratory protection**

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

**Hand protection**

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

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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	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

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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  
 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

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Risk characterisation ratio (RCR)	0,504
Lead substance	isobutyl acetate
<b>Workers (professional)</b>	
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

<b>Workers (professional)</b>	
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

<b>Workers (professional)</b>	
SU	SU22
PROC	PROC10
Assessment method	inhalative
	Indoor use
Exposure assessment	0,05 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,172
Lead substance	xylene

<b>Workers (professional)</b>	
SU	SU22
PROC	PROC11
Assessment method	inhalative
	Indoor use
Exposure assessment	0,1 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,34
Lead substance	xylene

<b>Workers (professional)</b>	
SU	SU22
PROC	PROC13
Assessment method	inhalative
	Indoor use
Exposure assessment	0,05 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,172
Lead substance	xylene

**Information on estimated exposure and downstream-user guidance**

**Guidance for Downstream Users**

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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.