



Trade name: ClearShield Transit Part A

Version: 1 /

Date revised: 28.01.2019

Substance number: 3602XX111

Replaces Version: - / WORLD

Print date: 29.01.19

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

### **1.1. Product identifier**

ClearShield Transit Part A

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

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

Liquid laminate

### **1.3. Details of the supplier of the safety data sheet**

#### **Address**

Marabu GmbH & Co. KG  
Asperger Strasse 4  
71732 Tamm  
Germany  
Telephone no. +49-7141/691-0  
Fax no. +49-7141/691-147  
Information provided by / telephone Department product safety

### **1.4. Emergency telephone number**

(+49) (0)621-60-43333

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**

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

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

EUH208 Contains A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1), May produce an allergic reaction.

##### **Supplemental information**

EUH210 Safety data sheet available on request.

##### **Labelling according to regulation (EU) No 528/2012**

Contains a biocidal product. A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)

### **2.3. Other hazards**

No special hazards have to be mentioned.

## **SECTION 3: Composition/information on ingredients**

### **3.2. Mixtures**

#### **Chemical characterization**

Water containing liquid laminate based on polyurethane

#### **Hazardous ingredients**

##### **1-Butylpyrrolidin-2-one**

CAS No. 3470-98-2



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EINECS no. 222-437-8  
 Registration no. 01-2120062728-48-0000  
 Concentration >= 1 < 5 %

Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Skin Irrit. 2 H315  
 Eye Irrit. 2 H319

**2-Butoxyethanol**

CAS No. 111-76-2  
 EINECS no. 203-905-0  
 Registration no. 01-2119475108-36  
 Concentration >= 1 < 5 %

Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Acute Tox. 4 H332  
 Acute Tox. 4 H312  
 Acute Tox. 4 H302  
 Eye Irrit. 2 H319

**1-Methoxy-2-propanol**

CAS No. 107-98-2  
 EINECS no. 203-539-1  
 Registration no. 01-2119457435-35  
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)  
 STOT SE 3 H336  
 Flam. Liq. 3 H226

**A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1)**

CAS No. 55965-84-9  
 Concentration < 0,0015 %

Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 3 H331  
 Aquatic Chronic 1 H410  
 Aquatic Acute 1 H400  
 Skin Sens. 1 H317  
 Skin Corr. 1B H314  
 Acute Tox. 3 H311  
 Acute Tox. 3 H301

Concentration limits (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1B H314 >= 0,6  
 Eye Irrit. 2 H319 <= 0,06 < 0,6  
 Skin Irrit. 2 H315 <= 0,06 < 0,6  
 Skin Sens. 1 H317 >= 0,0015

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



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In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### **After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### **After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

#### **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.

#### **After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

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

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

Treat symptomatically

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist, Not be used for safety reasons: water jet

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

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); dense black smoke

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

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

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

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

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

Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

### **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 preferably with a detergent - avoid use of solvents.

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

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.



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

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

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

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

#### **Classification of fires / temperature class / Ignition group / Dust explosion class**

Temperature class                      T3

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

#### **Requirements for storage rooms and vessels**

Store in accordance with national regulation

#### **Hints on storage assembly**

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

#### **Further information on storage conditions**

Store between 15 and 30 °C in a dry, well ventilated place. Keep container tightly closed. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **7.3. Specific end use(s)**

Liquid laminate

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

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

##### **1-Butylpyrrolidin-2-one**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	10	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	24,1	mg/m <sup>3</sup>

##### **1-Methoxy-2-propanol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	553,5	mg/m <sup>3</sup>

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

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Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 50,6 mg/person/d

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 369 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group General Population  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 18,1 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group General Population  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 43,9 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group General Population  
 Duration of exposure Long term  
 Route of exposure oral  
 Mode of action Systemic effects  
 Concentration 3,3 mg/kg/d

**2-Butoxyethanol**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Acute  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 89 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 135 ppm

Type of value Derived No Effect Level (DNEL)  
 Reference group General Population  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 50 ppm

Type of value Derived No Effect Level (DNEL)

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Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	75	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20	ppm
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	44,5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	426	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	13,4	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	123	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	38	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	49	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	



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Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	3,2	mg/kg

**Predicted No Effect Concentration (PNEC)**

**1-Butylpyrrolidin-2-one**

Type of value	PNEC	
Type	Freshwater	
Concentration	4	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	29,6	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,4	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	2,96	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	3,57	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	30,62	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1	mg/l

**1-Methoxy-2-propanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Type	Water	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Sediment	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	4,17	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,47	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	



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Concentration	100	mg/l
<b>2-Butoxyethanol</b>		
Type of value	PNEC	
Type	Freshwater	
Concentration	8,8	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2,8	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	34,6	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	463	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,88	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	3,46	mg/kg

## 8.2. Exposure controls

### Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

### Respiratory protection

Not applicable.

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

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

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

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

Always ensure that gloves are free from defects and that they are stored and used correctly.

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

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

### Eye protection

Use safety eyewear designed to protect against splash of liquids.

### Body protection

Not applicable.

## **SECTION 9: Physical and chemical properties**





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

<b>Form</b>	Liquid		
<b>Colour</b>	milky white		
<b>Odour</b>	mild		
<b>Odour threshold</b>			
Remarks	No data available		
<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	appr. 100		°C
Pressure	1.013	hPa	
Source	Literature value		
<b>Flash point</b>			
Remarks	Not applicable		
<b>Evaporation rate (ether = 1) :</b>			
Remarks	not determined		
<b>Flammability (solid, gas)</b>			
Not applicable			
<b>Upper/lower flammability or explosive limits</b>			
Lower explosion limit	appr. 1,1		%(V)
Upper explosion limit	appr. 13,7		%(V)
Source	Literature value		
<b>Vapour pressure</b>			
Remarks	not determined		
<b>Vapour density</b>			
Remarks	not determined		
<b>Density</b>			
Value	appr. 0,91		g/cm <sup>3</sup>
Remarks	not determined		
Source	calculated value		
<b>Solubility in water</b>			
Remarks	miscible		
<b>Partition coefficient: n-octanol/water</b>			
Remarks	Not applicable		
<b>Ignition temperature</b>			
Value	appr. 240		°C
Source	Literature value		
<b>Viscosity</b>			
Remarks			
Remarks	not determined		
<b>Explosive properties</b>			
evaluation	no		
<b>Oxidising properties</b>			



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evaluation None known

## 9.2. Other information

### Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

### 10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute inhalational toxicity

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Sensitization

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

#### Mutagenicity

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

#### Reproductive toxicity

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

#### Carcinogenicity

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

#### Specific Target Organ Toxicity (STOT)

##### Single exposure

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

##### Repeated exposure

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

#### Aspiration hazard

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

#### Experience in practice



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Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the GHS/CLP Regulation (EC) No 1272/2008.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

#### General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

### 12.2. Persistence and degradability

#### General information

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

#### General information

There are no data available on the mixture itself.

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

Remarks	Not applicable
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### 12.4. Mobility in soil

#### General information

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

#### General information

There are no data available on the mixture itself.

### 12.6. Other adverse effects

#### General information

There are no data available on the mixture itself.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 03 12\* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the



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appropriate code should be assigned.  
For further information contact your local waste authority.

**Disposal recommendations for packaging**

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.  
Empty containers must be scrapped or reconditioned.  
Not emptied containers are hazardous waste (waste code number 150110).

**SECTION 14: Transport information**

**Land transport ADR/RID**

Non-dangerous goods

**14.1. UN number**

UN -

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

Class -

Label -

**14.4. Packing group**

Packing group -

Transport category 0

**14.5. Environmental hazards**

-

**Marine transport IMDG/GGVSee**

The product does not constitute a hazardous substance in sea transport.

**14.1. UN number**

UN -

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

Class -

Subsidiary risk -

**14.4. Packing group**

Packing group -

**14.5. Environmental hazards**

no

**Air transport ICAO/IATA**

The product does not constitute a hazardous substance in air transport.

**14.1. UN number**

UN -

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

Class -

Subsidiary risk -

**14.4. Packing group**

Packing group -

**14.5. Environmental hazards**

-

**Information for all modes of transport**

**14.6. Special precautions for user**

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.



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**Other information**

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
no

**SECTION 15: Regulatory information**

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

**Other information**

The product does not contain substances of very high concern (SVHC).

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Hazard statements listed in Chapter 3**

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 3	Acute toxicity, Category 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
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.  
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of

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workplace risks, as required by other health and safety legislation.