



## SAFETY DATA SHEET

according to Regulation (EU) No. 1907/2006

112000017821

Version 1.1

Revision Date 06.05.2009

Print Date 19.08.2009

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product information

Trade name : **PERGUT B 10**  
Use : Binder for coating materials or adhesives

#### Company

Bayer MaterialScience AG  
BMS-IO-HSEQ-PSI (Product Safety)  
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### 2. HAZARDS IDENTIFICATION

NON-HAZARDOUS according to the criteria of NOHSC NON-DANGEROUS GOODS

Not classified as a hazardous product as per Council Directive 2006/121/EC or 1999/45/EC.

Possible risk of absorption through the skin of toluene.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

chlorinated polymer containing max. 2,5 % wt.toluene

#### Hazardous components

toluene  
Concentration [wt.-%]: <= 2,5  
CAS-No.: 108-88-3  
EINECS-No.: 203-625-9  
Index-No.: 601-021-00-3  
Classification: F R11 Repr.Cat.3 R63 Xn R48/20 -R65 Xi R38 R67

### 4. FIRST AID MEASURES

**General advice:** Remove all contaminated clothing.



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**If inhaled:** If high concentrations of the dusts have been inhaled, the person should be taken into the fresh air and kept still and warm. If there is difficulty in breathing, medical attention should be obtained.

**In case of skin contact:** In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.

**In case of eye contact:** Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

**If swallowed:** DO NOT induce the patient to vomit, medical advice is required.

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## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

**Unsuitable extinguishing media:** High volume water jet

Formation of hydrogen chloride in case of fire. In the event of fire and/or explosion do not breathe fumes.

During fire-fighting respirator with independent air-supply and airtight garment is required.

Fight fire in early stages if safe to do so. Cool undamaged containers with water. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Put on protective equipment (see chapter 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

**Methods for cleaning up:** Avoid formation and deposition of dust. Use mechanical handling equipment. Fill into labeled, sealable containers.

**Additional advice:** For further disposal measures see chapter 13.

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## 7. HANDLING AND STORAGE

### Handling

Provide sufficient air exchange and/or exhaust in work rooms. Vapors of toluene may be released on heating or placing in solution and can accumulate during storage in closed container.

Take measures to prevent dust formation; remove any dust with air extractors where it is formed. When dissolving the product use efficient exhaust ventilation. Handle in accordance with good

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industrial hygiene and safety practice.

Prevent formation of explosive dust-air mixtures. Take measures to prevent the build up of electrostatic charge.

**Storage**

Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Components with workplace control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
toluene	108-88-3	EU ELV	TWA	50 ppm 192 mg/m <sup>3</sup>		
toluene	108-88-3	EU ELV	STEL	100 ppm 384 mg/m <sup>3</sup>		
toluene	108-88-3	EU ELV	Skin			Dermal absorption possible
toluene	108-88-3	AU OEL	TWA	50 ppm 191 mg/m <sup>3</sup>		
toluene	108-88-3	AU OEL	STEL	150 ppm 574 mg/m <sup>3</sup>		
toluene	108-88-3	AU OEL	Skin			Dermal absorption possible

**Respiratory protection:**

If product forms dust wear dust-protection mask. Respiratory equipment required during spraying of the coating.

**Hand protection:**

Suitable materials for safety gloves; EN 374-3:  
Nitrile rubber - NBR: thickness  $\geq 0,35$ mm; breakthrough time  $\geq 480$ min.  
Recommendation: contaminated gloves should be disposed of.

**Eye protection:**

Wear eye/face protection.

**Skin and body protection:**

Wear suitable protective clothing.

**Hygiene measures:**

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated clothing.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Colour:	white	
Form:	powder	
Odour:	almost odourless	
Melting point/range:	200 - 250 °C	DIN 53736
Decomposition temperature:	>= 255 °C	DTA
Density:	ca. 1,5 g/cm <sup>3</sup>	DIN 53479
Bulk density:	ca. 0,4 kg/m <sup>3</sup>	DIN ISO 697
Vapour pressure:	not applicable	
Water solubility:	insoluble	
pH:	8 - 9	
Flash point:	not applicable	
Burning number:	BZ 2 = brief ignition and rapid extinction	
Autoignition temperature:	not auto-flammable	
Explosion limits:		
toluene	upper: 7,8 %(V) / lower: 1,2 %(V)	
Further information:	The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.	

**10. STABILITY AND REACTIVITY**

**Hazardous decomposition products:** No hazardous decomposition products when stored and handled correctly.

**Thermal decomposition:** Decomposition begins at 255 °C.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity, oral:**

LD50 rat: &gt; 2.000 mg/kg

**Acute toxicity, dermal:**

toluene

LD50 rabbit: &gt; 12.000 mg/kg

**Acute toxicity, inhalation:**

toluene

LC50 rat: 28,1 mg/l, 4 h

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**Primary skin irritation:**

toluene

rabbit

Result: moderate irritant

Method: OECD Test Guideline 404

**Primary mucosae irritation:**

rabbit

Result: slight irritant

**CMR classification:**

toluene

Mutagenicity: Not mutagenic in Ames Test.

Toxicity to reproduction: Possible risk of harm to the unborn child.

**Additional information:**

toluene

Aromatic hydrocarbons irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations. repeated or prolonged contact may cause irritation and dermatitis Harmful: may cause lung damage if swallowed.

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**12. ECOLOGICAL INFORMATION**

Do not allow to escape into waterways, wastewater or soil.

**Biodegradability:**

toluene

86 % 20 d, , i.e. readily biodegradable

**Toxicity to fish:**

LC50 &gt; 100 mg/l

Test species: Brachydanio rerio (zebra fish) Duration of test: 96 h

**Acute toxicity for daphnia:**

toluene

EC50 11,5 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

**Acute bacterial toxicity:**

EC50 &gt; 10.000 mg/l

Method: OECD Guideline for Testing of Chemicals, No.209

**Acute toxicity for algae:**

toluene

EC50 125 mg/l

Tested on: Desmodesmus subspicatus (Green algae) Duration of test: 48 h

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## 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

### Further information

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.