

**HEKAPUR Rigid Foam Component B**

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

**1.1. Product identifier**

HEKAPUR Rigid Foam Component B

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

**Use of the substance/mixture**

Di / poly-isocyanate component for polyurethane manufacture

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

Company name: Exact Plastics GmbH  
Street: Genossenschaftsstr. 12  
Place: D-29356 Bröckel  
Telephone: +49 (0) 5144 4955648  
Responsible Department: info@exact-plastics-gmbh.de  
Telefax: +49 (0) 5144 4955649

**1.4. Emergency telephone number:** Emergency telephone : +49 (0) 5144 4955648

**SECTION 2: Hazards identification**

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

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

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard

Statements:

Harmful if

inhaled. Causes

skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled. May cause an allergic skin reaction.

Suspected of causing

cancer. May cause

respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

**2.2. Label elements**

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

**Hazard components for labelling**

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol; diphenyl methane diisocyanate, isomers and homologues

**Signal word:** Danger



**Pictograms:**

**Hazard statements**

H332

Harmful if inhaled.

**HEKAPUR Rigid Foam Component B**

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P260	Do not breathe Vapour/Aerosol.
P280	Wear gloves and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.

**Special labelling of certain mixtures**

EUH204	Contains isocyanates. May produce an allergic reaction.
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**2.3. Other hazards**

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

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

**3.2. Mixtures**

**Chemical characterization**

Diphenylmethane diisocyanate (MDI),  
modified.

**Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol			45 - 50 %
	500-262-0		01-2119485612-35	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
9016-87-9	diphenyl methane diisocyanate, isomers and homologues			45 - 50 %
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated, saturated clothing immediately.  
Remove affected person from the danger area and lay down.  
In the event of persistent symptoms receive medical treatment.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.

# Safety Data Sheet

Revision Date: 2019-01-16  
Print Date: 2019-01-21  
Version: 1-05  
Page: 3 / 11

according to Regulation (EC) No 1907/2006



## HEKAPUR Rigid Foam Component B

### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### **After ingestion**

Call a physician immediately. Do NOT induce vomiting.

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

The following symptoms may occur: Dyspnoea, Cough, Asthmatic complaints  
Symptoms can occur only after several hours.

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

No information available.

## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Foam, Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder, Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

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

In case of fire formation of carbon monoxide, nitrogen oxide, isocyanat vapour and traces of hydrogen cyanide is possible.

In case of fire and/or explosion do not breathe fumes. Heating will cause pressure rise with risk of bursting. Cool containers at risk with water spray jet.

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

Wear a self-contained breathing apparatus and chemical protective clothing.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

In case of vapour formation use respirator. Provide adequate ventilation.  
Wear personal protection equipment (refer to section 8).

### **6.2. Environmental precautions**

Clear contaminated areas thoroughly.  
Do not allow to enter into surface water or drains.

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

"Cover with humid, absorbent material (e.g. sand, sawdust, chemical binder). After approx. 1 hour, collect in disposal drum; do not close (CO<sub>2</sub> development)."

Keep damp in the open air in a safe place for 7 to 14 days.

Treat the recovered material as prescribed in the section on waste disposal.

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

none

Revision Date: 2019-01-16  
Print Date: 2019-01-21  
Version: 1-05  
Page: 4 / 11

## Safety Data Sheet

according to Regulation (EC) No 1907/2006



### HEKAPUR Rigid Foam Component B

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

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

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothes.  
Do not inhale vapours.

###### **Further information on handling**

Keep container tightly closed.

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

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

Keep in a cool, well-ventilated place. Protect from moisture. Protect against direct sunlight.  
Please read section "Handling and storage" in our data sheet and our product notice for additional information.

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

Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs.

**HEKAPUR Rigid Foam Component B**

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

No information available.

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

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
-	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol			
Worker DNEL, acute		dermal	systemic	50 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	0,1 mg/m <sup>3</sup>
Worker DNEL, acute		dermal	local	28,7 mg/cm <sup>2</sup>
Worker DNEL, acute		inhalation	local	0,1 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	0,05 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,05 mg/m <sup>3</sup>
9016-87-9	diphenyl methane diisocyanate, isomers and homologues			
Worker DNEL, acute		dermal	systemic	50 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	0,1 mg/m <sup>3</sup>
Worker DNEL, acute		dermal	local	28,7 mg/cm <sup>2</sup>
Worker DNEL, acute		inhalation	local	0,1 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	0,05 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,05 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Environmental compartment	Value
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol		
		Freshwater	> 1 mg/l
		Marine water	> 0,1 mg/l
		Micro-organisms in sewage treatment plants (STP)	> 1 mg/l
		Soil	> 1 mg/kg
9016-87-9	diphenyl methane diisocyanate, isomers and homologues		
		Freshwater	1 mg/l
		Marine water	0,1 mg/l
		Micro-organisms in sewage treatment plants (STP)	1 mg/l
		Soil	1 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**HEKAPUR Rigid Foam Component B**

**Protective and hygiene measures**

Do not breathe vapour.  
Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.  
Do not eat, drink or smoke when using this product. Treat subsequently with skin cream.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Chemical-resistant gloves (EN 374)  
Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374):  
butyl rubber (Butyl) - = 0.7 mm thickness; i.e. < Butoject 898> made by KCL.  
Nitrile rubber (Nitrile) - 0.4 mm thickness : i.e. < Camatril Velours 730> made by KCL.  
Because of the great variety of glove types, the manufacturer's instructions for use must be adhered to. The data given refer to information from glove manufacturers or have been assessed by analogy to similar materials. It should be taken into consideration, that due to the great number of influential factors such as the temperature, the daily durability of chemicals resistant protective gloves may be considerably reduced in practice, compared to the permeation rate assessed according to EN 374.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.  
If product is sprayed, use fresh-air breathing apparatus or (only short-term use) a combination filter A2-P2.

**Environmental exposure controls**

No information available.

**SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid
Colour:	light brown
Odour:	not determined
pH-Value:	not determined
<b>Changes in the physical state</b>	
Melting point:	not determined
Initial boiling point and boiling range:	> 300 °C
Flash point:	220 °C
<b>Flammability</b>	
Solid:	not applicable
Gas:	not applicable
<b>Explosive properties</b>	
Product does not present an explosion hazard.	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	560 °C
<b>Auto-ignition temperature</b>	
Solid:	not applicable
Gas:	not applicable
<b>Oxidizing properties</b>	
not applicable	
Vapour pressure:	not determined
Density (at 20 °C):	1,20 -1,24 g/cm³
Water solubility:	Reacts violently with water.

**HEKAPUR Rigid Foam Component B**

Partition coefficient: Viscosity / dynamic: (at 20 °C)	not determined 500 - 700 mPa·s
Vapour density:	not determined
Evaporation rate:	not determined

**9.2. Other information**

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

There are no data available on the mixture itself.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Exothermic reaction with amines and alcohols; reacts with water forming CO<sub>2</sub>; in closed containers, risk of bursting owing to increase of pressure.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat. (> 200°C) Avoid moisture.

**10.5. Incompatible materials**

Amines, Oxidising agent, strong, Acids , Alkali (lye)

**10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Harmful if inhaled.

Toxicological studies of a comparable product. The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

HEKAPUR Rigid Foam Component B

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol				
	oral	LD50 > 15800 mg/kg	Rat		
	dermal	LD50 > 7940 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 (0,368) mg/l	Rat		
9016-87-9	diphenyl methane diisocyanate, isomers and homologues				
	oral	LD50 > 10000 mg/kg	Rat	OECD 401	
	dermal	LD50 > 9400 mg/kg	Rabbit	OECD 402	
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 (1,5) mg/l	Method: Expert judgement		

**Irritation and corrosivity**

Causes serious eye irritation. Causes skin irritation.

**Sensitising effects**

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol; diphenyl methane diisocyanate, isomers and homologues)

May cause an allergic skin reaction. (4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol; diphenyl methane diisocyanate, isomers and homologues)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with

2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol; diphenyl methane diisocyanate, isomers and homologues)

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. (4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with

2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol; diphenyl methane diisocyanate, isomers and homologues)

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol; diphenyl methane diisocyanate, isomers and homologues)

**Aspiration hazard**

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

**Practical experience**

**Observations relevant to classification**

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

In case of longer contact with skin, tanning and irritating effects effects are possible .



**HEKAPUR Rigid Foam Component B**

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxicological data are not available.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 > 1640 mg/l	72 h	Scenedesmus subspicatus		
	Acute bacteria toxicity	(> 100 mg/l)	3 h	Activated sludge		
9016-87-9	diphenyl methane diisocyanate, isomers and homologues					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Brachydanio rerio (zebra-fish)	OECD 203	
	Acute algae toxicity	ErC50 > 1640 mg/l	72 h	Scenedesmus subspicatus		
	Acute bacteria toxicity	(> 100 mg/l)	3 h	Activated sludge		

**12.2. Persistence and degradability**

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol				
	Biodegradable (OECD): 302 D	0%	28		
	i.e. not inherently degradable				
9016-87-9	diphenyl methane diisocyanate, isomers and homologues				
	Biodegradable (OECD): 302 D	0 %	28		
	i.e. not inherently degradable				

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**BCF**

CAS No	Chemical name	BCF	Species	Source
75880-28-3	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol	200	Cyprinus carpio (Common Carp)	
9016-87-9	diphenyl methane diisocyanate, isomers and homologues	< 14	Cyprinus carpio (Common Carp)	OECD 305

**12.4. Mobility in soil**

Adsorption to solid soil phase is not expected.

**12.5. Results of PBT and vPvB assessment**

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

The product reacts with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

**Further information**

Do not allow to enter into surface water or drains.

HEKAPUR Rigid Foam Component B

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

It is not possible to give this product a waste code number according to the European waste catalogue because only the intended use of the user consents the assignment of a specific code number.

The waste code number must be agreed with the disposer / manufacturer / competent authority.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

14.4. Packing group:

14.5. Environmental hazards

no

ENVIRONMENTALLY  
HAZARDOUS:

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 56: diphenyl methane diisocyanate, isomers and homologues

Additional information

This product does not contain substances of very high concern > 0,1% (Regulation (EC) No 1907/2006 (REACH), Article 57).

# Safety Data Sheet

Revision Date: 2019-01-16  
Print Date: 2019-01-21  
Version: 1-05  
Page: 11 / 11

according to Regulation (EC) No 1907/2006



## HEKAPUR Rigid Foam Component B

### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### Additional information

"ZH 1/34 ""Data Sheet: Polyurethane manufacture / Isocyanate (M 044)"""

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:  
4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with 2,4'-diisocyanatodiphenylmethane and (methylethylene) bis (oxy) dipropanol

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s) 11

### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH204	Contains isocyanates. May produce an allergic reaction.

### Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Protective measures for handling freshly moulded polyurethane parts :  
Depending on the production parameters, uncovered surfaces of polyurethane moulds produced using this raw material may contain traces of substances (e. g. starting and reaction products, catalysts, release agents) with hazardous effects (e. g. harmful, irritating, corrosive, sensitising). Avoid skin contact with traces of these substances.

When demoulding or otherwise handling freshly moulded polyurethane parts, protective textile gloves should be worn as a minimum. Their palm and finger areas should preferably be coated on the outside with Nitrile rubber, PVC or polyurethane. Wear suitable protective clothing, if necessary long-sleeved, when handling freshly moulded PUR parts under standard (handling) conditions.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Key literature references and sources for data Regulation (EC) No 1907/2006; Regulation (EC) No. 1272/2008

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*