


<b>EC Safety Data Sheet</b> (according to 91/155/EEC)			
<b>Product name:</b>	<b>DURO RAPID Component A</b>		<b>Issue No. 0003</b>
<b>Issued on:</b>	<b>15/01/2004</b>	<b>Printing date:</b>	<b>03/02/2004</b> <span style="float: right;">Page 1 of 3</span>

### 1. Substance-/Preparation and company name

**Details of the product** (Product name and use): DURO RAPID Component A; Injection material for building structures

#### Information about manufacturer/supplier

	<b>Germany</b>	<b>Switzerland</b>
Manufacturer/supplier:	Tricosal GmbH	Tricosal BBZ AG
Address:	Von-Helmholtz-Str. 1 D-89257 Illertissen	Gewerbezentrum Rotfarb 9213 Hauptwil (Schweiz)
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URL	www.tricosal.de	

### 2. Composition / Information on ingredients

**Chemical composition:** Preparation on the basis of a Prepolymer (2,4-Diisocyanattoluol (TDI))

#### Hazardous ingredients:

EG-No.	Name of substance	Content	Symbol	R-phrases
209-544-5	2,4-Diisocyanattoluol (and Isomeric)	< 1 %	T+	26; 36/37/38; 40; 42/43; 52/53

### 3. Possible Hazards

**Identification of hazard:** Xn harmful  
**Information concerning hazards for man and environment:** Harmful if inhaled; irritating to eyes, breathing organs and skin; my cause sensitization by inhalation. Very low concentrations may cause asthmatic appearances for oversensitive persons  
 This classification system complies with the current EC-lists and company information.

### 4. First aid measures


**General advice:** Immediately remove contaminated and soaked clothing  
**After inhalation:** Provide for fresh air, at troubles seek medical advice immediately  
**After skin contact:** Wash off with plenty of water and soap; at continuous irritation seek medical advice  
**After eye contact:** Rinse with plenty of water for at least 10 min., seek medical advice immediately  
**After ingestion:** Seek medical advice immediately; instil nothing by mouth; do not induce vomiting  
**Notes for the doctor:** Product can irritate and sensitize respiratory tract; treatment primarily symptomatic for primary irritation or Bronchospasmen; effects can appear delayed.

### 5. Fire Fighting Measures

**Suitable extinguishing media:** foam; extinguishing powder; CO<sub>2</sub> (Carbon Dioxide); water spray  
**Non-suitable extinguishing agent (for safety reason):** Water jet spray  
**Particular hazards caused by the substance, combustion products or developing gases:** Toxic and irritant burnt gases can form in case of fire  
**Special protective equipment:** Wear self-contained breathing apparatus in case of fire. Follow the standard safety measures for handling chemicals in case of fire.

### 6. Accidental release measures

**Personal precautions:** Protect eyes and hands; wear personal protection equipment; avoid inhalation of fumes; provide for good ventilation  
**Environmental precautions:** Do not allow to enter drains, sewers, water courses and soil; dam up released material;  
**Measures for cleaning / collection:** Soak up with inert liquid absorbent materials (e.g. universal binders); dispose in accordance with local regulations

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**7. Handling and storage**

**Handling:**

**Directions for safe handling:**

Wear personal protection equipment; provide for good ventilation (if necessary use extraction); avoid inhalation of fumes

**Directions to prevent fire and explosions:**

Protect from sources of ignition; protect from heat.

**Storage:**

**Requirements for warehouses and containers:**

keep container tightly closed; protect from direct sunlight and heat; store under cool conditions, but protect from frost; keep out of reach of children

**Further information for storage conditions:**

Not available

**8. Exposure controls and personal protection**

**Engineering control measures:**

Ventilation (see paragraph 7)

**Occupational exposure limits:**

EG-No.	Name of substance	Type	Value	Unit
209-544-5	2,4-Diisocyanatoluol (TDI)	MAK	0,07 *)	mg/m <sup>3</sup>

\*) = TRGS 430 (Germany)

**Personal protective equipment**

**Breathing protection:**

Provide for good ventilation; avoid inhalation of fumes

**Hand protection:**

chemical resistant protective gloves (e.g. nitrile rubber).

**Eye protection:**

Tight fitting safety goggles.

**Body protection:**

Normal working clothes

**Hygiene at working place:**

keep away from food and beverages; wash hands before breaks and at the end of working day; do not eat, drink or smoke during working

**9. Physical and chemical properties**

**Physical state:** liquid

**Colour:** clear, yellowish

**Odour:** not applicable

**Value / Unit**

**Change in condition:**

Not determined

**Density (at 20°C):**

ca. 1,1 g/ml

**Vapour pressure (at 20°C):**

Not determined

**Viscosity (at 20°C):**

approx. 300 mPas

**Solubility in water (at 20°C):**

Insoluble, reacts

**pH-value (at 20°C):**

Not applicable

**Flash point:**

> 100°C

**Explosion hazard:**

Not determined

**10. Stability and reactivity**

**Conditions and substances to avoid:**

No-one as agreed at use and storage

**Hazardous decomposition products:**

No-one as agreed at use and storage

**Hazardous reactions:**

Exothermic reaction with amines and alcohols; with water (moisture): CO<sub>2</sub> is produced; pressure may build up inside closed containers (danger of bursting)

**11. Toxicological information**

**Primary irritant effect (skin, eyes):**


Irritations after contact with skin, breathing oranges and eyes are possible

**Sensitization:**

Possible by inhalation

**Additional information:**

none

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**12. Ecological information**

Degradability: Not determined  
German water endangering class (WGK): 1 (own classification)  
Further ecological information: Do not release product into environment.  
Further ecological data: Not available

**13. Disposal considerations**

**Product**  
**Recommendation:** If recycling is not possible, dispose in accordance with local and official regulations.  
**Uncleaned packaging**  
**Recommendation:** Disposal in accordance with local and official regulations.

**14. Transport information**

**Land transport**  
**Sea transport**  
**Air transport** } Non hazardous goods according to transport regulations

**15. Regulatory information**

**Identification according to EC directives**

Code letter and hazard designation of the product:



Relevant component for hazardous goods labelling:

Xn harmful  
contains: 2,4-Diisocyanatoluol (Isomeric and Homologous);  
contains Isocyanate; note the manufacturer's instruction

Special identification of certain preparations:

**R-phrases:** 20 Harmful by inhalation  
42 May cause sensitization by inhalation

**S-phrases:** 23 Do not breathe gas/fumes/vapour/spray  
36/37 Wear suitable protective clothing and gloves  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**National regulations**

**German water endangering class (WGK):** 1 (own classification)  
**Swiss Federal Office of Public Health:** BAG T-Nr. 614 304, poisonous category 4  
Contains less than 2% Isocyanate of poisonous category 2

**16. Other information**

Relevant code letter and hazard designation of the product, see section 2:

R 26 Very toxic by inhalation.  
R 36/37/38 Irritating to eyes, respiratory system and skin  
R 40 Limited evidence of a carcinogenic effect  
R 42/43 May cause sensitisation by inhalation and skin contact  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Changes in comparison with the previous version are marked at the margin with a line.

The information of this MSDS is based on the present state of our knowledge. The users working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product and is not to be considered as a guarantee of product properties.