

Product name: IS 810 Component A**Issue No. 0002****Issued on:** 28/07/2003**Printing date:** 24/11/2003

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1. Substance-/Preparation and company name

Details of the product IS 810 Component A;
(Product name and use): Polyurethane injection foam for building structures

Information about manufacturer/supplier

	Germany	Switzerland
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 Diphenylmethan-diisocyanat**Hazardous ingredients:**

CAS-No.	Name of substance	Content	Symbol	R--phrases
101-68-8	Diphenylmethan-4.4-diisocyanat; Isomeric and compositions thereof	< 60 %	Xn	20; 36/37/38; 42/43

3. Possible Hazards

Identification of hazard: Xn Harmful
Information concerning hazards for man and environment: Harmful if inhaled. Irritating to eyes, respiratory organs and skin; may cause sensitization by inhalation and skin contact.

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.
After skin contact: Wash off with plenty of water and soap.
After eye contact: Rinse immediately with plenty of water for at least 15 min.; seek medical advice immediately
After ingestion: Rinse mouth; seek medical advice immediately

5. Fire Fighting Measures

Suitable extinguishing media: Foam, Extinguishing powder, CO₂ (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 protective equipment; avoid inhalation of fumes.
Environmental precautions: Do not allow to enter drains, sewers, watercourses and soil.
Measures for cleaning / collection: Soak up with inert liquid absorbent material (e.g. universal binders); dispose in accordance to local regulations.

EC Safety Data Sheet (according to 91/155/EEC)



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7. Handling and storage

Handling

Directions for safe handling:

Wear personal protection equipment; provide for good ventilation.

Directions to prevent fire and explosions:

Protect from sources of ignition; protect from heat.

Storage

Requirements for warehouses and containers:

Keep containers 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 applicable

8. Exposure controls and personal protection

Engineering control measures: Ventilation (see paragraph 7)

Occupational exposure limits (Germany):

CAS-No.	Name of substance	Type	Value	Unit
101-68-8	Diphenylmethan-4.4-diisocyanat	MAK	0,05	mg/m ³

Personal protective equipment

Breathing protection:

Provide for good ventilation

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, brown

Odour: not applicable

Value / Unit

Change in condition:

Not determined.

Density (at 20°C):

Approx. 1,1 g/ml

Vapour pressure (at 20°C):

Not determined.

Viscosity (at 20°C):

Approx. 1000 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

Dangerous reactions: Exothermic reaction with amines and alcohols; CO₂-development in connection with water (humidity); pressure build-up in closed containers possible; risk of bursting.

11. Toxicological information

Primary irritant effect (skin, eyes): Irritating after contact with skin, eyes and respiratory organs

Sensitisation: Possible by inhalation and skin contact.

Additional information: None

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12. Ecological information

Degradability:	Not determined
German WGK:	1 (own classification)
Further ecological information:	Do not release product into environment.
Further ecological data:	The product reacts with water under formation of CO ₂ to a firm insoluble very melting polyurea which is inert and not degradable after previous.

13. Disposal considerations

Product Recommendation:	If recycling is not possible, disposal in accordance with local and official regulations.
Uncleaned packaging Recommendation:	Disposable in accordance with local and official regulations.

14. Transport information

Land transport Sea transport Air transport	} Non hazardous goods according to transport regulations
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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: Diphenylmethandiisocyanate, Isomeric and Homologous

Special identification of certain preparations: Contains: Isocyanate; note the manufacturer's instruction

R-phrases:	20 Harmful by inhalation
	36/37/38 Irritating to eyes, respiratory organs and skin
	42/43 May cause sensitization by inhalation and skin contact
S-phrases:	23 Do not breathe steam/aerosol
	24 Avoid contact with skin
	37/39 Wear suitable protective gloves and safety goggles/face protection
	45 In case of accident or if you feel unwell, seek medical advice immediately (show this label if it's possible)

National regulations

German WGK 1 (own classification)
Swiss Federal Office of Public Health: BAG T-Nr. 614463, poisonous category 3

16. Other information

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

R 20	Harmful by inhalation
R 36/37/38	Irritating to eyes, respiratory organs and skin
R 42/43	May cause sensitization by inhalation and skin contact

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.