

**Biodent Isolation H**

Material no.		Version	<b>4.0 / GB</b>
Specification	<b>142297</b>	Release Date	<b>18.07.2006</b>
VA-Nr		Print Date	<b>08.06.2009</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Biodent Isolation H

Company : DeguDent GmbH  
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D-63403 Hanau

Telephone : +49 (0)6181/59-5767  
Telefax : +49 (0)6181/59-5879

Emergency telephone number : +49 (0)180 / 23 24-555

Use of the Substance / Preparation : For dental use only.

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

The preparation contains:  
Polydimethyl siloxane and filling material  
Pigments

**Information on ingredients / Hazardous components**

• <b>toluene</b>		40% - 65%	
CAS-No.	108-88-3	EC-No.	203-625-9
	F; R11		
	Repr.Cat.3; R63		
	Xn; R48/20, R65		
	Xi; R38		
	R67		

See chapter 16 for text of risk phrases

**3. HAZARDS IDENTIFICATION**

Highly flammable.  
Harmful by inhalation.

**4. FIRST AID MEASURES****General advice**

Take off all contaminated clothing immediately.

**Inhalation**

Bring affected person outside and ensure that he/she is comfortable.  
Obtain medical attention.

**Skin contact**

Wash off with plenty of water and soap immediately.

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Obtain medical attention.

**Eye contact**

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Consult an ophthalmologist.

**Ingestion**

Call a physician immediately.

Clean mouth with water and drink afterwards plenty of water.

Ingest activated charcoal.

Do not induce vomiting.

Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray, foam, CO2, dry powder.

**Specific hazards during fire fighting**

In case of fire cool endangered containers with water.

Hazardous fumes in fires, specific to the product:  
nitrogen oxides (NOx)

**Special protective equipment for fire-fighters**

Wear suitable protective clothing.

Have ready/wear respiratory protection equipment.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Keep away from sources of ignition - No smoking.

Ensure adequate ventilation.

Do not allow to enter drains (danger of explosion).

**Environmental precautions**

Do not allow entrance in sewage water, drainage systems, stretches of water, soil.

**Methods for cleaning up**

Take up mechanically or with an absorbent material.

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: universal absorbent, absorbent for liquids

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**7. HANDLING AND STORAGE****Handling****Safe handling advice**

Provide good ventilation or extraction.

**Advice on protection against fire and explosion**

Take precautionary measures against static charges, keep away from sources of ignition.

Explosion protection equipment required.

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**Storage****Requirements for storage areas and containers**

Keep containers tightly closed in a cool, well-ventilated place.

Suitable materials mild steel, stainless steel, aluminium, glass  
Unsuitable materials plastics (with few exceptions)

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**• **toluene**

CAS-No.	108-88-3	EC-No.	203-625-9
Control parameters	50 ppm 191 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	150 ppm 574 mg/m <sup>3</sup>		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters			Skin designation:(EH40 WEL)

Can be absorbed through the skin.

**Other information**

Limite values after biological standards  
BAT-value (TRGS 903/D):1,7 mg/l  
toluene

**Personal protective equipment****Respiratory protection**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus

**Hand protection**

Wear protective gloves made of the following materials: solvent-resistant material.

Glove material	Fluorinated rubber (FKM)
Material thickness	0.4 mm
Break through time	480 min
Method	Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

preventive skin protection

Use barrier cream regularly.

**Eye protection**

Safety glasses with side-shields

**Hygiene measures**

Do not inhale vapours / aerosols.

Avoid contact with the skin and the eyes.

When using, do not eat, drink or smoke.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	transparent, yellowish
Odour	stinging

**Safety data**

pH	(20 °C)	not determined
Boiling point/range	111 °C	(1013 hPa)
Flash point	6 °C	Method: DIN 51 755
Ignition temperature	535 °C	Method: DIN 51 794
Lower explosion limit	1.2 %(V)	
Upper explosion limit	7.8 %(V)	
Vapour pressure	29 hPa	(20 °C)
Density	0.97 g/cm <sup>3</sup>	(20 °C)
Water solubility	slightly soluble	
Viscosity, dynamic	250 mPa.s	(23 °C) Method: Brookfield method

**10. STABILITY AND REACTIVITY**

Thermal decomposition	Distills without decomposition at atmospheric pressure.
Hazardous reactions	Reacts with: strong oxidants

**11. TOXICOLOGICAL INFORMATION**

Acute inhalation toxicity	harmful
Further information	Aromatic hydrocarbons irritate skin and mucuous membranes and may have narcotic effects at higher concentrations.

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**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects****Further information on ecology**

Further Information                      no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**14. TRANSPORT INFORMATION****Land transport ADR/RID/GGVSE (Germany)**

Class	3
ADR/RID-Labels	3
UN-No	1294
Packaging group	II
orange warning plate	33 / 1294
Description of the goods (Technical name)	
TOLUENE	

**Sea transport IMDG-Code/GGVSee**

Class	3
UN-No	1294
Packaging group	II
EmS	F-E, S-D
Proper technical name (Proper shipping name)	
TOLUENE	

**Air transport ICAO-TI/IATA-DGR**

Class	3
UN-No	1294
Packaging group	II
Proper technical name (Proper shipping name)	
Toluene	

**Inland waterway transport ADN/ADNR/GGVBinSch (Germany)**

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1294
Packaging group	II
Description of the goods (Technical name)	
TOLUENE	

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**Loading instructions/Remarks**

ADR	Observe listed materials regulation §7, paragraph 1 GGVSE
IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L

**15. REGULATORY INFORMATION****Labelling according to EC Directives****hazard-defining component(s)**

- toluene

<b>Symbol(s)</b>	F Xn	Highly flammable Harmful
<b>R-phrase(s)</b>	R11 R20	Highly flammable. Harmful by inhalation.
<b>S-phrase(s)</b>	S16 S25 S29 S33	Keep away from sources of ignition - No smoking. Avoid contact with eyes. Do not empty into drains. Take precautionary measures against static discharges.

**National legislation**

employment restriction	The employment limitations under the protection of young persons act, the laws on pregnant women and young mothers and work at home is/are to be observed.
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**16. OTHER INFORMATION****Risk phrase (R phrase) texts**

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

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.

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