

# SAFETY DATA SHEET (EC 1907/2006)

## Isolit

Material no.		Version	3.5 / GB
Specification	102866	Revision date	22.09.2010
VA-Nr		Print Date	23.09.2010
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**DeguDent**  
A Dentsply International Company

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

### Product information

Trade name	Isolit
Company	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	+49 (0)6181/59-5767
Telefax	+49 (0)6181/59-5879
Email address	SDB@degudent.de
Emergency telephone number	+49 (0)180 / 23 24-555

Use of the Substance / Preparation For dental use only.

REACH Registration No.: if available listed in Chapter. 3

## 2. HAZARDS IDENTIFICATION

### Classification as per Directive 67/548/EC or Directive 1999/45/EC

R10: Flammable.

### Other Hazards

Vapours can form explosive mixtures with air.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

• glycerol			15% - 20%
CAS-No.	56-81-5	EC-No.	200-289-5
• ethanol			70% - 75%
CAS-No.	64-17-5	EC-No.	200-578-6

See chapter 16 for text of risk phrases

## 4. FIRST AID MEASURES

### Description of first aid measures

Remove contaminated or saturated clothing.

### Inhalation

Move victims into fresh air.

Consult a physician immediately.

### Skin contact

Wash off with soap and plenty of water.

Consult a physician immediately.

### Eye contact

Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution.

Consult an ophthalmologist.

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## Ingestion

Rinse out mouth.  
After absorbing large amounts of substance:  
Immediately give large quantities of water to drink.  
Consult a physician.

## Indication of any immediate medical attention and special treatment needed

After absorbing large amounts of substance:  
Possible discomfort:  
nausea, diarrhoea, gastro-intestinal complaints, obnubilation, cyanosis.  
Therapy as for poisoning by ethyl alcohol.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

water spray, alcohol-resistant foam, CO<sub>2</sub>, dry powder

### Unsuitable extinguishing media

high volume water jet

### Special hazards arising from the substance or mixture

Formation of flammable or explosive vapour/air mixtures possible.  
In case of fire cool endangered containers with water.

### Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.  
In the event of fire, wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practices.

### Environmental precautions

Prevent penetration into soil, stretches of water and drainage systems.

### Methods and material for containment and cleaning up

Dilute with plenty of water.

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## 7. HANDLING AND STORAGE

### Handling

#### Precautions for safe handling

Ensure suitable suction/aeration at the work place and with operational machinery.  
Keep locked up.  
Keep out of the reach of children.  
Keep container tightly closed.  
Do not breathe vapour.

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

### Storage

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

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

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

Respirator with brown A-type filter

#### Hand protection

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

Glove material butyl-rubber

Material thickness 0.5 mm

Break through time 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

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

#### Skin and body protection

Avoid prolonged contact with the skin.

Avoid contaminating clothes with product.

solvent-resistant apron

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.

Do not breathe vapour.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	colourless
Odour	aromatic

### Information on basic physical and chemical properties

pH	7
Medium:	water

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Melting point/range	< -15 °C	
Boiling point/range	ca. 100 °C	
Flash point	28 °C	
Ignition temperature	425 °C	
	related to substance:	Ethanol
Lower explosion limit	3.5 %(V)	
	related to substance:	Ethanol
Upper explosion limit	15 %(V)	
	related to substance:	Ethanol
Density	0.876 g/cm <sup>3</sup>	
Water solubility	soluble	

**10. STABILITY AND REACTIVITY**

Conditions to avoid	Keep away from sources of ignition - No smoking.
Incompatible materials	None known
Hazardous decomposition products	None known

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 Rat: 13600 mg/kg related to substance: Ethanol
	LD50 Rat: 12600 mg/kg related to substance: Glycerin
Skin irritation	Has a degreasing effect on the skin. In the case of high or long-term exposure

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

*No ecotoxicological studies are available.*

Toxicity to fish	LC50 Leuciscus idus melanotus: 8140 mg/l literature related to substance: Ethanol
Toxicity to daphnia	EC 3 Daphnia magna: 7800 mg/l related to substance: Ethanol
Toxicity to bacteria	EC 10 Pseudomonas putida: 6500 mg/l literature related to substance: Ethanol

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**Further information on ecology**

Further Information

Prevent penetration into soil, stretches of water and drainage systems.

**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/GGVSEB (Germany)**

Class	3
ADR/RID-Labels	3
UN-No	1170
Packaging group	III
orange warning plate	30 / 1170
Tunnel Restriction Code (ADR)	(D/E)
Description of the goods (Technical name)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

**Sea transport IMDG-Code/GGVSee (Germany)**

Class	3
UN-No	1170
Packaging group	III
EmS	F-E, S-D
Proper technical name (Proper shipping name)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

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

Class	3
UN-No	1170
Packaging group	III
Proper technical name (Proper shipping name)	Ethanol solution

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

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1170
Packaging group	III
Description of the goods (Technical name)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

**Loading instructions/Remarks**

IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L

**15. REGULATORY INFORMATION****Labelling according to EC Directives**

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**DeguDent***A Dentsply International Company***hazard-defining component(s)****II** • ethanol

<b>R-phrase(s)</b>	R10	Flammable.
<b>S-phrase(s)</b>	S 2	Keep out of the reach of children.
	S 7	Keep container tightly closed.
	S16	Keep away from sources of ignition - No smoking.

**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****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.