

SAFETY DATA SHEET (EC 1907/2006)**Ducera SEP Isolating Fluid****DeguDent**

A Dentsply International Company

Material no.		Version	3.3 / GB
Specification	129867	Revision date	02.03.2010
VA-Nr		Print Date	04.03.2010
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	Ducera SEP Isolating Fluid
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**F, highly flammable
R11: Highly flammable.Xn, harmful
R65: Harmful: may cause lung damage if swallowed.Xi, irritant
R38: Irritating to skin.

R67: Vapours may cause drowsiness and dizziness.

N, dangerous for the environment
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components As per Directive 67/548/EC or Directive 1999/45/EC****• cyclohexane**

CAS-No.	110-82-7	EC-No.	203-806-2
	F; R11		
	Xn; R65		
	Xi; R38		
	R67		
	N; R50, R53		

• Paraffin waxes and hydrocarbon waxes

CAS-No.	8002-74-2	EC-No.	232-315-6
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See chapter 16 for text of risk phrases

4. FIRST AID MEASURES

General advice

Take off all contaminated clothing immediately.

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

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.

Do not induce vomiting.

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, foam, CO₂, dry powder.

Specific hazards during fire fighting

Product is flammable.

Heavier than air vapour.

Formation of flammable or explosive vapour/air mixtures possible.

Keep away from sources of ignition - No smoking.

Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.

Further information

Take precautionary measures against static discharges.

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid coming into contact with the following substance/substance classes: Product.

Do not breathe in vapours or aerosols.

Environmental precautions

Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion.

Do not allow entrance in drainage systems, sewage water, groundwater or soil.

Methods for cleaning up

Absorb with liquid-binding material (e.g. inert absorbent kieselguhruniversal binder) pick up.

Dispose of contaminated material as a waste in a correct manner.

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

Use only in well-ventilated areas.
Ensure suitable suction/aeration at the work place and with operational machinery.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Storage**Requirements for storage areas and containers**

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

Storage stability

Recommended storage temperature
min. 10 °C

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

• cyclohexane			
CAS-No.	110-82-7	EC-No.	203-806-2
Control parameters	100 ppm 350 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	300 ppm 1050 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	200 ppm 700 mg/m ³		Time Weighted Average (TWA):(EU ELV)
• Paraffin waxes and hydrocarbon waxes			
CAS-No.	8002-74-2	EC-No.	232-315-6
Control parameters	2 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Fume.		
Control parameters	6 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
type of exposition	Fume.		

DNEL/DMEL and PNEC values**Engineering measures**

Ensure that there is suitable air extraction / ventilation in the workplace or at the working machines. If necessary extractor suction on specific objects.

Personal protective equipment**Respiratory protection**

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.

Hand protection

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

Glove material	nitrile rubber
Material thickness	0.35 mm
Break through time	480 min
Method	Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

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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

solvent-resistant apron
Avoid contaminating clothes with product.

Hygiene measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Remove contaminated or saturated clothing.
No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.
Do not inhale vapours / aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless
Odour	characteristic

Safety data

pH	not applicable
Melting point/range	7 °C related to substance: Cyclohexane
Boiling point/range	81 °C (1013 hPa) related to substance: Cyclohexane
Flash point	-18 °C related to substance: Cyclohexane
Ignition temperature	260 °C related to substance: Cyclohexane
Lower explosion limit	1.2 %(V) related to substance: Cyclohexane
Upper explosion limit	8.3 %(V) related to substance: Cyclohexane
Vapour pressure	103 hPa (20 °C) related to substance: Cyclohexane
Density	0.78 g/cm ³ (20 °C) related to substance: Cyclohexane
Water solubility	< 0.1 g/l (20 °C)

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related to substance: Cyclohexane

10. STABILITY AND REACTIVITY

Conditions to avoid	Heat.
Materials to avoid	strong oxidizing agents, nitrogen oxides (NOx)
Hazardous reactions	Highly flammable. Formation of flammable or explosive vapour/air mixtures possible.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	Rat: > 12000 mg/kg
Human experience	If gas/fumes/aerosols occur for short periods: irritation of mucous lining (nose, throat, eyes) possible Formation of a toxic lung edema is possible if product continues to be inhaled despite acute irritative effect (e.g. if it is not possible to leave the danger area).

12. ECOLOGICAL INFORMATION**Behaviour in environmental compartments**

Bioaccumulation	high related to substance: Cyclohexane
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Ecotoxicity effects

Toxicity to fish	LC50 <i>Leuciscus idus melanotus</i> : 55 mg/l related to substance: Cyclohexane LC50 <i>Carassius auratus</i> : 10 mg/l / 24 h related to substance: Cyclohexane
Toxicity to daphnia	LC50 <i>Daphnia magna</i> : 340 mg/l related to substance: Cyclohexane
Toxicity to algae	EC0 <i>Scenedesmus quadricauda</i> : < 400 mg/l related to substance: Cyclohexane
Toxicity to bacteria	EC0 <i>Pseudomonas putida</i> : < 400 mg/l related to substance: Cyclohexane

Further information on ecology

Further Information	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. related to substance: Cyclohexane
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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	1145
Packaging group	II
orange warning plate	33 / 1145
Tunnel Restriction Code (ADR)	(D/E)
Description of the goods (Technical name)	CYCLOHEXANE

Sea transport IMDG-Code/GGVSee (Germany)

Class	3
UN-No	1145
Packaging group	II
EmS	F-E, S-D
Proper technical name (Proper shipping name)	CYCLOHEXANE
Marine pollutant	

Air transport ICAO-TI/IATA-DGR

Class	3
UN-No	1145
Packaging group	II
Proper technical name (Proper shipping name)	Cyclohexane

Inland waterway transport ADN/ADNR/GGVSEB (Germany)

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1145
Packaging group	II
Description of the goods (Technical name)	CYCLOHEXANE

Loading instructions/Remarks

ADR	Observe listed materials regulation §35, paragraph 1 GGVSEB
IATA_C	ERG-Code 3H
IATA_P	ERG-Code 3H

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

- cyclohexane

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Symbol(s)	F Xn N	Highly flammable Harmful Dangerous for the environment
R-phrase(s)	R11 R38 R50/53 R65 R67	Highly flammable. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
S-phrase(s)	S 9 S16 S25 S33 S60 S61 S62	Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Avoid contact with eyes. Take precautionary measures against static discharges. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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.

16. OTHER INFORMATION**Risk phrase (R phrase) texts**• **cyclohexane**

R11	Highly flammable.
R65	Harmful: may cause lung damage if swallowed.
R38	Irritating to skin.
R67	Vapours may cause drowsiness and dizziness.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

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.