

**SAFETY DATA SHEET (EC 1907/2006)****Dentsply Prosthetics Die Sealer****DeguDent**  
A Dentsply Company

Material no.		Version	1.1 / GB
Specification	172743	Revision date	15.09.2011
VA-Nr		Print Date	18.01.2012
		Page	1 / 8

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	Dentsply Prosthetics Die Sealer
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.Xi, Irritant  
R36: Irritating to eyes.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.**Other Hazards**

Repeated or prolonged exposure may cause irritation of eyes and skin.

Is absorbed through the skin.

May be harmful by inhalation, in contact with skin and if swallowed.

Frequent and continuous exposure may cause reactions of the skin and respiratory tract.

Formation of flammable or explosive vapour/air mixtures possible.

Repeated aerosol inhalation may lead to severe irritation of the respiratory tract.

Inhalation	Possible discomfort: irritation of mucous lining (nose, throat, eyes), coughing.
Skin	Long or repeated exposure can cause skin irritation (dermatitis). Repeated exposure may cause skin dryness or cracking.
Eyes	May irritate eyes Can induce tears, reddening or swelling.
Ingestion	Ingestion may cause irritation to the mouth, throat and stomach and could result in liver and kidney damage.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

• Ethylacetate		85% - 98%	
CAS-No.	141-78-6	EC-No.	205-500-4
	F; R11 Xi; R36 R66		

**SAFETY DATA SHEET (EC 1907/2006)****Dentsply Prosthetics Die Sealer**

Material no.		Version	1.1 / GB
Specification	172743	Revision date	15.09.2011
VA-Nr		Print Date	18.01.2012
		Page	2 / 8

**DeguDent**  
A Dentsply Company

R67			
• <b>propan-2-ol</b>			1% - 10%
CAS-No.	67-63-0	EC-No.	200-661-7
	F; R11 Xi; R36 R67		
• <b>cellulose nitrate; nitrocellulose</b>			1% - 5%
CAS-No.	9004-70-0		
	F R11		

See chapter 16 for text of risk phrases

**4. FIRST AID MEASURES****Description of first aid measures**

Take off all contaminated clothing immediately.

**Inhalation**

Move victims into fresh air.

Consult a physician immediately.

**Skin contact**

Wash off with plenty of water and soap immediately.

Consult a physician immediately.

**Eye contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult an ophthalmologist.

**Ingestion**

Consult a physician immediately.

Only when patient fully conscious:

Have the mouth rinsed with 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.

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

alcohol stable extinguishing foam, quenching powder, carbon dioxide (CO<sub>2</sub>)

**Special hazards arising from the substance or mixture**

Combustible

Heavier than air vapour.

Forms explosive mixtures with air.

In case of fire and/or explosion do not breathe fumes.

May be released in case of fire: carbon monoxide, carbon dioxide and nitrous gases.

**Special protective equipment for fire-fighters**

In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

**Advice for firefighters**

In case of fire cool containers or take them to a safe place. To cool, spray closed containers with water spray jet. Water used to extinguish fire should not enter drainage systems, soil, or stretches of water.

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VA-Nr		Print Date	<b>18.01.2012</b>
		Page	<b>3 / 8</b>

**DeguDent**  
A Dentsply Company

Absorb decomposition gases with jet of water.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition - No smoking.  
Keep people away from and upwind of spill/leak.  
Do not inhale vapours / aerosols.  
Wear personal protective equipment.  
Avoid contact with skin, eyes and clothing.

**Environmental precautions**

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

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand diatomaceous earth acid neutralizer universal binder saw dust).  
Dispose of contaminated material as a waste in a correct manner.

**7. HANDLING AND STORAGE****Handling****Precautions for safe handling**

Take precautionary measures against static discharges.  
Ensure suitable suction/aeration at the work place and with operational machinery.  
Avoid formation of aerosol.  
Do not breathe in vapours or aerosols.  
Avoid contact with skin, eyes and clothing.  
Wear personal protective equipment; see section 8.  
Upon skin contact, wash with plenty of water and soap.

**Advice on protection against fire and explosion**

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

**Storage****Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place.  
Ensure there is good room ventilation.  
Avoid sun rays, heat effect, sources of ignition.  
Do not store together with: oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

<b>• Ethylacetate</b>			
CAS-No.	141-78-6	EC-No.	205-500-4
Control parameters	200 ppm		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	400 ppm		Short Term Exposure Limit (STEL):(EH40 WEL)
<b>• propan-2-ol</b>			
CAS-No.	67-63-0	EC-No.	200-661-7
Control parameters	400 ppm 999 mg/m3		Time Weighted Average (TWA):(EH40 WEL)

**SAFETY DATA SHEET (EC 1907/2006)****Dentsply Prosthetics Die Sealer****DeguDent**  
A Dentsply Company

Material no.	Version	1.1 / GB
Specification	Revision date	15.09.2011
172743	Print Date	18.01.2012
VA-Nr	Page	4 / 8

Control parameters	500 ppm	Short Term Exposure Limit (STEL):(EH40 WEL)
	1250 mg/m3	

**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 used in accordance with the regulations: No particular protective equipment required.

**Hand protection**

Glove material                                      Wear protective gloves made of the following materials: butyl rubber.

**Eye protection**

wear basket-shaped glasses or safety goggles with side-shields.

**Skin and body protection**

Usual lab protective clothing

**Hygiene measures**

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

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

Form	liquid
Colour	colourless - light pink
Odour	alcoholic
physical state	liquid

**Information on basic physical and chemical properties**

pH	n.a.
Boiling point/range	78 °C
Flash point	-4 °C
Lower explosion limit	2 %(V)
Upper explosion limit	12 %(V)
Vapour pressure	114.66 hPa (20 °C)
Density	0.91 g/cm3
Water solubility	slightly soluble

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**10. STABILITY AND REACTIVITY**

Conditions to avoid	Keep away from sources of heat, flames and sparks. Do not permit product to dry out.
Incompatible materials	Avoid contact with acid, bases., amines, oxidizing agents

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Material no.	Version	1.1 / GB
Specification	Revision date	15.09.2011
VA-Nr	Print Date	18.01.2012
	Page	5 / 8

**DeguDent**  
A Dentsply Company

Hazardous decomposition products Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 Rat: 5620 mg/kg related to substance: Ethylacetate
	LD50 Rat: 5045 mg/kg related to substance: 2-propanol
	LD50 Rat: > 5000 mg/kg related to substance: cellulose nitrate; nitrocellulose
Acute inhalation toxicity	LC50 Rat: 200 mg/l related to substance: Ethylacetate
	LC50 Rat: 16000 ppm / 8 h related to substance: 2-propanol
Acute dermal toxicity	LD50 Rabbit: > 18000 mg/kg related to substance: Ethylacetate
	LD50 Rabbit: 12800 mg/kg related to substance: 2-propanol
Eye irritation	possibly irritating May cause eye irritation.
Human experience	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

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

Toxicity to fish	LC50 Fish: > 100 mg/l / 96 h related to substance: Ethylacetate
	LC50 Fish: > 100 mg/l / 96 h related to substance: 2-propanol

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

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

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Material no.		Version	1.1 / GB
Specification	172743	Revision date	15.09.2011
VA-Nr		Print Date	18.01.2012
		Page	6 / 8

**DeguDent**  
A Dentsply Company**14. TRANSPORT INFORMATION****Land transport ADR/RID/GGVSEB (Germany)**

Class	3
ADR/RID-Labels	3
UN-No	1173
Packaging group	II
orange warning plate	33 / 1173
Tunnel Restriction Code (ADR)	(D/E)
Description of the goods (Technical name)	
ETHYL ACETATE SOLUTION	

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

Class	3
UN-No	1173
Packaging group	II
EmS	F-E, S-D
Proper technical name (Proper shipping name)	
ETHYL ACETATE SOLUTION	

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

Class	3
UN-No	1173
Packaging group	II
Proper technical name (Proper shipping name)	
Ethyl acetate solution	

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

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1173
Packaging group	II
Description of the goods (Technical name)	
ETHYL ACETATE SOLUTION	

**Loading instructions/Remarks**

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

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

<b>Symbol(s)</b>	F	Highly flammable
	Xi	Irritant
<b>R-phrase(s)</b>	R11	Highly flammable.
	R36	Irritating to eyes.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
<b>S-phrase(s)</b>	S 9	Keep container in a well-ventilated place.

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VA-Nr		Print Date	<b>18.01.2012</b>
		Page	<b>7 / 8</b>

**DeguDent**  
*A Dentsply Company*

S16	Keep away from sources of ignition - No smoking.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

**National legislation****16. OTHER INFORMATION****Risk phrase (R phrase) texts****• Ethylacetate**

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**• propan-2-ol**

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

**• cellulose nitrate; nitrocellulose**

R11	Highly flammable.
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**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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VA-Nr		Print Date	<b>18.01.2012</b>
		Page	<b>8 / 8</b>

**DeguDent**  
A Dentsply Company

**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration Factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c. c.</b>	closed cup (geschlossenes Gefäß)
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	Carcinogenic-Mutagenic-toxic for Reproduction
<b>DIN</b>	German Institute for Standardization
<b>DNEL</b>	Derived No Effect Level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice.
<b>GMO</b>	Genetic Modified Organism
<b>IATA DGR</b>	International Air Transport Association – Dangerous Goods Regulations
<b>ICAO-TI</b>	International Civil Aviation Organisation - Technical Instructions
<b>IMDG Code</b>	International Maritime Dangerous Goods Code
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>LOEL</b>	Lowest Observed Effect Level
<b>NOAEL</b>	No Observed Adverse Effect Level
<b>NOEC</b>	No Observed Effect Concentration
<b>NOEL</b>	No Observed Effect Level
<b>o. c.</b>	open cup (offenes Gefäß)
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, Bioaccumulative, Toxic
<b>PEC</b>	Predicted Effect Concentration
<b>PNEC</b>	Predicted No Effect Concentration
<b>RID</b>	Regulations concerning the International Carriage of Dangerous Goods by Rail
<b>TA</b>	Technical Instructions (German Ordinance)
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances (German Regulations)
<b>VCI</b>	German "Verband der Chemischen Industrie e. V."
<b>vPvB</b>	Very Persistent, Very Bioaccumulative
<b>VOC</b>	Volatile Organic Compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	German Water Hazard Class
<b>WHO</b>	World Health Organization