

SAFETY DATA SHEET (91/155/EWG)**DeguDent**
A Dentsply International Company**Ducera Lay Saturationfluid**

material No.		Version	3.0 / GB
specification	130194	Revision date	09.03.2004
VA-Nr		Print Date	30.03.04
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**Product information**

Trade name : Ducera Lay Saturationfluid

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:
Pigments

Information on ingredients / Hazardous components

● **propan-1-ol**
CAS-No. 71-23-8 EC-No. 200-751-6
F; R11
Xi; R41
R67

See chapter 16 for text of risk phrases

3. HAZARDS IDENTIFICATION

Highly flammable.
Risk of serious damage to eyes.
Vapours may cause drowsiness and dizziness.

Vapours can form explosive mixtures with air.

4. FIRST AID MEASURES**General advice**

Take off all contaminated clothing immediately.

Inhalation

Take affected persons out into the fresh air.
Obtain medical attention.

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Skin contact

Wash off with plenty of water.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at last 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.

Notes to physician

gastric lavage, administration of activated charcoal, acceleration of the gastro-intestinal tract.

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

water spray, alcohol-resistant foam, CO₂, dry powder

Extinguishing media which must not be used for safety reasons

water, full jet

Specific hazards during fire fighting

Combustible

Heavier than air vapour.

Formation of flammable or explosive vapour/air mixtures possible.

Take precautionary measures against static discharges.

May be released in case of fire: toxic gases/vapours.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Ensure adequate ventilation.

Environmental precautions

Prevent product from entering drains.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Suitable absorbents:

universal absorbent

Fill into marked, sealable containers.

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

Provide good ventilation or extraction.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion

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

Storage**Requirements for storage areas and containers**

Keep container tightly closed.
Keep in a well-ventilated place.
Storage classification according to VCI (D): 3 A

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**• **propan-1-ol**

CAS-No.	71-23-8	EC-No.	200-751-6
Control parameters	200 ppm		Time Weighted Average (TWA):(EH40 OES)
	500 mg/m ³		Short Term Exposure Limit (STEL):(EH40 OES)
	250 ppm		Skin designation:(EH40 OES)
	625 mg/m ³		

Can be absorbed through the skin.

Engineering measures

Provide good ventilation or extraction.

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:.

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)

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

Glove material Polychloroprene (PCP)
Material thickness 0.5 mm
Break through time 120 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.
Remove contaminated or saturated clothing.
Avoid contact with skin and eyes.
Use barrier cream regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form liquid
Colour colourless
Odour alcoholic

Safety data

pH almost neutral

Melting point/range -126.5 °C

Boiling point/range 97.4 °C (1013 hPa)

Flash point 15 °C

Ignition temperature 405 °C

Lower explosion limit 2.1 %(V)

Upper explosion limit 13.5 %(V)

Vapour pressure 18.7 hPa (20 °C)

Density 0.8 g/cm³ (20 °C)

Water solubility miscible

Partition coefficient (n-octanol/water) log Pow: 0.25

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(measured)
related to substance: propan-1-ol

Viscosity, dynamic 2.75 mPa.s (20 °C)

10. STABILITY AND REACTIVITY

Hazardous decomposition products No specific hazards are known.

Hazardous reactions Danger of formation of explosive vapour/air mixtures.
Reacts violently with:
alkali metals
alkaline earth metals
Alcoholates
strong oxidants

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity LD50 rat: 1870 mg/kg

Acute inhalation toxicity Inhalation of vapours in high concentration may cause irritation of respiratory system.

Acute dermal toxicity LD50 rabbit: 4049 mg/kg

Skin irritation possibly irritating

Eye irritation irritating

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability readily biodegradable

Behaviour in environmental compartments**Ecotoxicity effects**

Toxicity to fish LC50 *Leuciscus idus melanotus*: 4560 mg/l / 48 h

Toxicity to daphnia EC50 *Daphnia magna*: 4262 mg/l / 24 h
Method: DIN 38412 part 11

Toxicity to algae EC50 (*Scenedesmus quadricauda*): > 1000.00 mg/l / 72 h
Method: cell multiplication inhibition test

Toxicity to bacteria EC 10 *Pseudomonas putida*: > 2700.00 mg/l / 16 h
Method: cell multiplication inhibition test

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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/GGVSE (Germany)**

	Class	3
	ADR/RID-Labels	3
	UN-No	1274
	Packaging group	II
	orange warning plate	33 / 1274
	Description of the goods (Technical name)	
	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	
	(solution,)	

Sea transport IMDG-Code/GGVSee

	Class	3
	UN-No	1274
	Packaging group	II
	EmS	F-E, S-D
	Proper technical name (Proper shipping name)	
	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	
	(solution,)	

Air transport ICAO-TI/IATA-DGR

	Class	3
	UN-No	1274
	Packaging group	II
	Proper technical name (Proper shipping name)	
	n-Propanol	
	(solution,)	

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 EEC Directive****hazard-defining component(s)**

- propan-1-ol

Symbol(s)	F	Highly flammable
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	Xi	Irritant
R-phrase(s)	R11 R41 R67	Highly flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.
S-phrase(s)	S 7 S16 S24 S26 S39	Keep container tightly closed. Keep away from sources of ignition. - No smoking. Avoid contact with the skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

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**

- **propan-1-ol**
R11 Highly flammable.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.

Further information

Changes since the last version will be 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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