

SAFETY DATA SHEET (EC 1907/2006)**Ducera Lay Brush Cleaner****DeguDent**
A Dentsply Company

Material no.		Version	3.4 / GB
Specification	130045	Revision date	22.11.2011
VA-Nr	01628707	Print Date	02.12.2011
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	Ducera Lay Brush Cleaner
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 according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids	Category 2	H225
Serious eye damage/eye irritation	Category 2	H319
Specific Target Organ Toxicity - Single exposure	Category 3	H336

GHS-Labeling**hazard-defining component(s) (GHS)**

- propan-2-ol

Symbol(s)



Signal word

Danger

Hazard statement

H225 - Highly flammable liquid and vapour.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.

Precautionary statement

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement:
Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 - Keep container tightly closed.
 P240 - Ground/bond container and receiving equipment.

Precautionary statement:
Reaction

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.

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

F, Highly flammable
 R11: Highly flammable.

Xi, Irritant
 R36: Irritating to eyes.

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R67: Vapours may cause drowsiness and dizziness.

Other Hazards

none known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components As per EU-CLP Ordinance (EC) No. 1272/2008

• propan-2-ol

CAS-No.	67-63-0	EC-No.	200-661-7		
Flammable liquids				Category 2	H225
Serious eye damage				Category 2	H319
Specific Target Organ Toxicity - Single exposure				Category 3	H336

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

• propan-2-ol

CAS-No.	67-63-0	EC-No.	200-661-7
	F; R11		
	Xi; R36		
	R67		

Texts of H phrases, see in Chapter 16
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.

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, alcohol-resistant foam, CO₂, dry powder

Special hazards arising from the substance or mixture

In case of fire cool endangered containers with water.

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Formation of flammable or explosive vapour/air mixtures possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Do not inhale vapours / aerosols.

Environmental precautions

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

Methods and material for containment and cleaning up

Take up mechanically or with an absorbent material.
Dispose of contaminated material as a waste in a correct manner.
Suitable binder: universal absorbent

7. HANDLING AND STORAGE

Handling

Precautions for safe handling

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.
Explosion protection equipment required.

Storage

Conditions for safe storage, including any incompatibilities

Keep container tightly closed.
Keep in a well-ventilated place.

Storage stability

Keep at temperatures of between 5 °C and 30 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

• propan-2-ol			
CAS-No.	67-63-0	EC-No.	200-661-7
Control parameters	400 ppm 999 mg/m ³		Time Weighted Average (TWA):(EH40 OES)
Control parameters	500 ppm 1250 mg/m ³		Short Term Exposure Limit (STEL):(EH40 OES)

Engineering measures

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

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

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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)
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	240 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 the skin and the eyes.
Use barrier cream regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless
Odour	alcoholic

Information on basic physical and chemical properties

pH	neutral
Melting point/range	-89.5 °C
Boiling point/range	82.4 °C (1013 hPa)
Flash point	12 °C
Method:	DIN 51 755

formation of flammable gases Vapours may form explosive mixture with air.

Ignition temperature	425 °C
Method:	DIN 51 794

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Thermal decomposition	No dangerous reaction known under conditions of normal use.		
Lower explosion limit	2 %(V)		
Upper explosion limit	12 %(V)		
Vapour pressure	43 hPa	(20 °C)	
Density	0.78 - 0.79 g/cm ³	(20 °C)	
Water solubility	completely miscible		
Partition coefficient (n-octanol/water)	log Pow: 0.05 (literature value) related to substance:	2-propanol	
Viscosity, dynamic	2.2 mPa.s	(20 °C) (literature value)	

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	Reacts violently with: alkali metals alkaline earth metals Aluminium strong oxidants strong acids amines iron
Conditions to avoid	Keep away from sources of heat, flames and sparks. Keep away from humidity.
Incompatible materials	various plastics, strong acids, acid anhydrides
Hazardous decomposition products	unknown

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat: 5045 mg/kg RTECS
Acute inhalation toxicity	LC50 Rat: 46.5 mg/l / 4 h (literature value) Inhalation of vapours in high concentration may cause irritation of respiratory system. Vapours may cause drowsiness and dizziness.
Acute dermal toxicity	LD50 Rabbit: 12800 mg/kg RTECS
Skin irritation	May be irritating on frequent or long-term contact.
Eye irritation	Rabbit

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RTECSSensitization guinea pig: negative
(literature)Gentotoxicity in vitro Ames test
negative
(literature value)**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**Biodegradability Exposure time: 21 d
Result: 95 %
Method: OECD 301 E
readily biodegradable**Behaviour in environmental compartments**

Mobility no data available.

Ecotoxicity effectsToxicity to fish LC50 LC50 Bluegill sunfish / 96 h
(literature value)Toxicity to daphnia EC50 Daphnia magna: > 1000 mg/l / 48 h
Method: DIN 38412 part 11

Toxicity to algae IC50 Desmodesmus subspicatus: > 1000 mg/l / 72 h

Toxicity to bacteria EC5 Pseudomonas putida: 1050 mg/l / 16 h
(literature value)**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	1219
Packaging group	II
orange warning plate	33 / 1219
Tunnel Restriction Code (ADR)	(D/E)

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Description of the goods (Technical name)

ISOPROPANOL (ISOPROPYL ALCOHOL) (solution)

Sea transport IMDG-Code/GGVSee (Germany)

Class	3
UN-No	1219
Packaging group	II
EmS	F-E, S-D

Proper technical name (Proper shipping name)

ISOPROPANOL (ISOPROPYL ALCOHOL) (solution)

Air transport ICAO-TI/IATA-DGR

Class	3
UN-No	1219
Packaging group	II

Proper technical name (Proper shipping name)

Isopropanol (solution)

Inland waterway transport ADN/GGVSEB (Germany)

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1219
Packaging group	II

Description of the goods (Technical name)

ISOPROPANOL (ISOPROPYL ALCOHOL) (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**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-2-ol
- | | |
|-----|---|
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

Texts of the H-phrases

- propan-2-ol
- | | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

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