

SAFETY DATA SHEET (EC 1907/2006)

Ducera Lay Brush Cleaner

Version: 3.8 / GB
Revision date: 14.11.2017
Issue date: 31.10.2001
replaces version: 3.7
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Material no. 5368182022
Specification 130045
VA-Nr 01779334



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name Ducera Lay Brush Cleaner
REACH Registration No.: if available listed in Chapter. 3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

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@dentsplysirona.com

1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Labelling as per (EU) 1272/2008

hazard-defining component(s) (GHS)

- propan-2-ol
- Hazard pictograms



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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, hot surfaces, sparks, open flames and other ignition sources. 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.

Supplemental hazard / labelling elements (EU):

2.3. Other hazards

none known.

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients

3.1. Substances

Information on ingredients / Hazardous components as per EU-CLP Regulation (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/eye irritation				Category 2	H319
Specific Target Organ Toxicity - Single exposure				Category 3	H336

Texts of H phrases, see in Chapter 16

3.2. Mixtures

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation

Move victims into fresh air.
Obtain medical attention.

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.

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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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

None known

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water spray
Alcohol-resistant foam
CO2
dry powder

5.2. Special hazards arising from the substance or mixture

Product is flammable.

Formation of flammable or explosive vapour/air mixtures possible.

5.3. Advice for firefighters

In case of fire cool containers or take them to a safe place.

Take precautionary measures against static discharges.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Do not inhale vapours / aerosols.

6.2. Environmental precautions

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

6.3. 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

6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide good ventilation or extraction.

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

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

Explosion protection equipment required.

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Storage

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

German storage class

3 - Flammable liquids

Storage stability

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

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

• propan-2-ol		
CAS-No.		
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)

8.2. Exposure controls

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

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)

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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/face 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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Form	liquid
Colour	colourless

Odour	alcoholic
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Odour threshold:	no data available
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pH	neutral
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Melting point/range	-89.5 °C
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Boiling point/range	82.4 °C (1013 hPa)
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Flash point	12 °C
Method:	DIN 51 755

Evaporation rate	no data available
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Flammability (solid, gas)	no data available
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Lower explosion limit	2 %(V)
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Upper explosion limit	12 %(V)
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Vapour pressure	43 hPa (20 °C)
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Density	0.78 - 0.79 g/cm3 (20 °C)
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Water solubility	(20 °C)
	soluble

Partition coefficient: n-octanol/water	log Pow: 0.05 (literature value)
Related to substance:	2-propanol

Autoinflammability	Not capable of spontaneous combustion or heating.
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Thermal decomposition	No dangerous reaction known under conditions of normal use.
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Viscosity, dynamic	2.2 mPa.s (20 °C) (literature value)
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Explosiveness no data available

Oxidizing properties no data available

9.2. Other information

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

Ignition temperature 425 °C
Method: DIN 51 794

Other information No further physicochemical data were determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixture with air.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reacts violently with: alkali metals, alkaline earth metals, Aluminium, strong oxidants, strong acids, amines, Iron

10.4. Conditions to avoid

Keep away from sources of heat, flames and sparks., Keep away from humidity.

10.5. Incompatible materials

various plastics, Strong acids, Acid anhydrides

10.6. Hazardous decomposition products

unknown

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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
Severe eye irritant
RTECS

Sensitization Guinea pig: negative
(literature)

Repeated dose toxicity no data available

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Gentotoxicity in vitro	Ames test negative (literature value)
Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available

SECTION 12: Ecological information**12.1. Toxicity**

No ecotoxicological data is available for this product.

Toxicity to fish	LC50 LC50 Lepomis macrochirus (Bluegill sunfish) / 96 h (literature value)
Toxicity in aquatic invertebrates	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)

12.2. Persistence and degradability

Biodegradability	Exposure time: 21 d
	Result: 95 %
	Method: OECD 301 E readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation	no data available
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12.4. Mobility in soil

Mobility	No data available
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12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information	Do not allow entrance in sewage water and soil.
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SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information

Transport on land (ADR/RID/GGVSEB)

- 14.1. UN number: UN 1219
14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)(solution)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
ADR: Tunnel Restriction Code: (D/E)
ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB

Inland waterway transport (ADN/GGVSEB (Germany))

- 14.1. UN number: UN 1219
14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)(solution)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 1219
14.2. UN proper shipping name: Isopropanol(solution)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: ERG-Code 3L
IATA-P: ERG-Code 3L

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 1219
14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)(solution)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No
EmS: F-E,S-D

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

employment restriction

Note employment restrictions for pregnant and lactating women., Note employment restrictions for minors.

15.2. Chemical safety assessment

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Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

SECTION 16: Other information

Relevant H phrases from chapter 3

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

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

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
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
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
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	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
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

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NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
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	Water Hazard Class
WHO	World Health Organization