

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

Material no.		Version	3.3 / GB
Specification	130048	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 Spacersolvent
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)**

- Ethylacetate

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.
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):**

EUH066 - Repeated exposure may cause skin dryness or cracking.

Classification as per Directive 67/548/EC or Directive 1999/45/ECF, Highly flammable
R11: Highly flammable.

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Xi, Irritant
R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

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

Ethylacetate			
CAS-No.	141-78-6	EC-No.	205-500-4
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

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

After contact with skin, wash immediately with 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

Consult a physician immediately.

Only when patient fully conscious:

Have the mouth rinsed with water.

Ingest activated charcoal.

Do not induce vomiting.

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

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Following inhalation:
administration of oxygen . Treatment of symptoms.
If substance has been swallowed:
Do not induce vomiting.
Aspiration hazard!
Acceleration of gastrointestinal passage
administration of activated charcoal.
After absorbing large amounts of substance:
Gastic lavage only with endotracheal intubation !

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

alcohol stable extinguishing foam, quenching powder, carbon dioxide (CO2)

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.
In the case of fire, the following hazardous smoke fumes may be produced:
toxic gases/vapours
Ethanol
Acetic acid

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Do not inhale vapours / aerosols.
Keep people away from and upwind of spill/leak.
Wear personal protective equipment.
Avoid coming into contact with the following substance/substance classes: Product.

Environmental precautions

Do not allow the product into the following compartments:
stretches of water
sewage water
drainage systems

Methods and material for containment and cleaning up

Keep away from sources of ignition - No smoking.
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.

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

Always close container tightly after removal of product.
 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.

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.

Storage stability

15 - 25 °C

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

• Ethylacetate			
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)

Personal protective equipment**Respiratory protection**

If respirable aerosols / vapour occurs:
 Respiratory protection

Hand protection

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

Glove material butyl-rubber

Material thickness 0.5 mm

Break through time 60 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

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

Keep away from food, drink and animal feedingstuffs.

Avoid contact with skin, eyes and clothing.

Do not inhale vapours / aerosols.

Immediately change moistened and saturated work clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless
Odour	fruity

Information on basic physical and chemical properties

pH	not determined
Melting point/range	ca. -83 °C
Boiling point/range	ca. 77 °C
Flash point	ca. -4 °C
Ignition temperature	ca. 460 °C
Lower explosion limit	ca. 2.1 %(V)
Upper explosion limit	ca. 11.5 %(V)
Vapour pressure	ca. 97 hPa (20 °C)
Density	ca. 0.9 g/cm ³ (20 °C)
Water solubility	ca. 85 g/l (20 °C)
Viscosity, dynamic	ca. 0.44 mPa.s

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	Formation of flammable or explosive vapour/air mixtures possible.
Conditions to avoid	Do not heat.
Incompatible materials	alkali metals, strong oxidant
Hazardous decomposition products	Ethanol, Acetic acid
Further information	Incompatibility with atmospheric oxygen and light particularly at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: > 5620 mg/kg
	Test substance: Ethylacetate

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Acute inhalation toxicity	LC50 Rat: 1600 mg/l / 8 h Test substance: Ethylacetate
Acute dermal toxicity	LD50 Rabbit: > 18000 mg/kg Test substance: Ethylacetate
Skin irritation	Rabbit not irritating Test substance: Ethylacetate

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

Further Information Do not allow entrance in groundwater, stretches of water or drainage systems.

Ecotoxicity effects

Toxicity to fish	Leuciscus idus melanotus: 270 mg/l
Toxicity to daphnia	Daphnia magna: > 2300 mg/l / 24 h

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	1173
Packaging group	II
orange warning plate	33 / 1173
Tunnel Restriction Code (ADR)	(D/E)
Description of the goods (Technical name)	ETHYL ACETATE

Sea transport IMDG-Code/GGVSee (Germany)

Class	3
UN-No	1173
Packaging group	II
EmS	F-E, S-D

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Proper technical name (Proper shipping name)

ETHYL ACETATE

Air transport ICAO-TI/IATA-DGR

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

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	

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**• **Ethylacetate**

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

Texts of the H-phrases• **Ethylacetate**

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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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