

**SAFETY DATA SHEET** (EC 1907/2006)**DeguDent**

A Dentsply International Company

**Eclipse Bonding Agent**

Material no.		Version	1.1 / GB
Specification	157164	Revision date	04.03.2008
VA-Nr		Print Date	04.03.2008
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	:	Eclipse Bonding Agent
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.

**2. HAZARDS IDENTIFICATION****Classification**

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.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	:	methyl acetate
CAS-No.	:	79-20-9
Index-No.	:	607-021-00-X
EC-No.	:	201-185-2
Symbol(s)	:	F, Xi
R-pharse(s)	:	R11, R36, R66, R67

**4. FIRST AID MEASURES****General advice**

Take off all contaminated clothing immediately.  
If you feel unwell, seek medical advice (show the label where possible).

**Inhalation**

Remove to fresh air.

**Skin contact**

Wash off with plenty of water, seek medical advice if necessary.

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**Eye contact**

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.  
See an eye specialist immediately.

**Ingestion**

If conscious, drink plenty of water and induce vomiting if possible.  
Consult a physician immediately.

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

powder, foam

**Specific hazards during fire fighting**

Combustible  
Heavier than air vapour.  
Forms explosive mixtures with air.  
Dangerous decomposition products possible.

**Special protective equipment for fire-fighters**

Wear suitable protective clothing.  
In the event of fire, wear self-contained breathing apparatus.

**Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Do not inhale vapours / aerosols.  
Avoid contact with skin, eyes and clothing.  
Ensure there is sufficient ventilation.  
Keep away from sources of ignition - No smoking.

**Environmental precautions**

Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion.

**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Shovel into suitable container for disposal.

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

Do not inhale vapours / aerosols.  
Provide sufficient air exchange and/or exhaust in work rooms.  
If necessary: Local ventilation.

**Advice on protection against fire and explosion**

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

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**Storage****Requirements for storage areas and containers**

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

**Storage stability**

Recommended storage temperature:

15 - 27 °C

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters****• methyl acetate**

CAS-No.	79-20-9	EC-No.	201-185-2
Control parameters	200 ppm 616 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	250 ppm 770 mg/m <sup>3</sup>		Short Term Exposure Limit (STEL):(EH40 WEL)

**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 workplace exposure limit is exceeded apply Respirator with brown A-type filter.

**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

**Hygiene measures**

Do not inhale vapours / aerosols.

Avoid contact with skin and eyes.

Take off contaminated clothing and shoes immediately.

Preventive skin protection recommended.

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
Odour	characteristic

**Safety data**

pH	ca. 6.5 - 7.5 (20 °C) related to substance:	methyl acetate
Melting point/range	-98 °C related to substance:	methyl acetate
Boiling point/range	56 - 58 °C (1013 hPa) related to substance:	methyl acetate
Flash point	-13 °C DIN 51 755 related to substance:	methyl acetate
Ignition temperature	455 °C related to substance:	methyl acetate
Lower explosion limit	3.1 %(V) related to substance:	methyl acetate
Upper explosion limit	16 %(V) related to substance:	methyl acetate
Vapour pressure	217 hPa (20 °C) related to substance:	methyl acetate
Density	0.93 g/cm <sup>3</sup> (20 °C) related to substance:	methyl acetate
Water solubility	250 g/l (20 °C) related to substance:	methyl acetate
Partition coefficient (n-octanol/water)	log Pow: 0.18 (measured) related to substance:	methyl acetate
Viscosity, dynamic	0.38 mPa.s (20 °C) related to substance:	methyl acetate

**10. STABILITY AND REACTIVITY**

Conditions to avoid	Heat.
Materials to avoid	acids, bases, oxidizing agents, Decomposes on contact with air., Risk of explosion.

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Further information                      Incompatibility with  
various plastics  
rubber

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 Rat: > 5000 mg/kg related to substance: methyl acetate
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg related to substance: methyl acetate
Skin irritation	Frequent and continual skin contact can cause skin reaction (Has a degreasing effect on the skin. skin irritation possible).
Eye irritation	possibly irritating
Further information	Irritation of skin and mucous membranes possible. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

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

Biodegradability	readily biodegradable related to substance: methyl acetate
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**Behaviour in environmental compartments****Ecotoxicity effects**

Toxicity to fish	LC50 Brachydanio rerio (zebra fish): 250 - 350 mg/l / 96 h related to substance: methyl acetate
Toxicity to daphnia	EC50 Daphnia: 1027 mg/l / 48 h related to substance: methyl acetate
Toxicity to bacteria	EC50 Photobacterium phosphoreum: 6100 mg/l / 30 min related to substance: methyl acetate

**Further information on ecology**

Chemical Oxygen Demand (COD)	1510 mg/g related to substance: methyl acetate
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Further Information                      Do not allow entrance in sewage water, soil or stretches of water.

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

Disposal according to local authority regulations.

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**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	1231
Packaging group	II
orange warning plate	33 / 1231
Description of the goods (Technical name)	METHYL ACETATE

**Sea transport IMDG-Code/GGVSee**

Class	3
UN-No	1231
Packaging group	II
EmS	F-E, S-D
Proper technical name (Proper shipping name)	METHYL ACETATE

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

Class	3
UN-No	1231
Packaging group	II
Proper technical name (Proper shipping name)	Methyl acetate

**Inland waterway transport ADN/ADNR/GGVBinSch (Germany)**

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1231
Packaging group	II
Description of the goods (Technical name)	METHYL ACETATE

**Loading instructions/Remarks**

ADR	Observe listed materials regulation §7, paragraph 1 GGVSE
IATA_C	ERG-Code 3H
IATA_P	ERG-Code 3H

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

Statutory basis/list	EU. Directive 67/548/EEC 67/548/EEC / 25th
Symbol(s)	F Highly flammable Xi Irritant
R-phrase(s)	R11 Highly flammable. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking.

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	R67	Vapours may cause drowsiness and dizziness.
<b>S-phrases(s)</b>	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.
	S29	Do not empty into drains.
	S33	Take precautionary measures against static discharges.

**National legislation**

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**16. OTHER INFORMATION****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.