

SAFETY DATA SHEET (91/155/EWG)**DeguDent**

A Dentsply International Company

Ceramco Articulator Adhesive Accelerator

Material no.		Version	3.2 / GB
Specification	144114	Release Date	06.12.2006
VA-Nr		Print Date	09.06.2009
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	Ceramco Articulator Adhesive Accelerator
Company	:	DeguDent GmbH Postfach 1364 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**Information on ingredients / Hazardous components**

• heptane [and isomers]	> 80%	
CAS-No.	142-82-5	EC-No. 205-563-8
	F; R11	
	Xn; R65	
	Xi; R38	
	R67	
	N; R50, R53	
• N,N-dimethyl-p-toluidine	1% - < 5%	
CAS-No.	99-97-8	EC-No. 202-805-4
	T; R23/24/25	
	R33	
	R52, R53	

See chapter 16 for text of risk phrases

3. HAZARDS IDENTIFICATION

Highly flammable.
Harmful by inhalation, in contact with skin and if swallowed.
Danger of cumulative effects.
Irritating to skin.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.

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4. FIRST AID MEASURES**General advice**

Take off all contaminated clothing immediately.

Inhalation

Take affected persons out into the fresh air.
Call a physician immediately.

Skin contact

Wash off immediately with soap and plenty of water.
Call a physician immediately.

Eye contact

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

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.

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

powder, foam

Specific hazards during fire fighting

Combustible
Heavier than air vapour.
Formation of flammable or explosive vapour/air mixtures possible.
Dangerous decomposition products possible.

Special protective equipment for fire-fighters

Wear suitable protective clothing.
wear a self contained respiratory apparatus

Further information

Take precautionary measures against static discharges.
Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Avoid coming into contact with the following substance/substance classes: Product.
Do not inhale vapours / aerosols.
Ensure there is good room ventilation.

Environmental precautions

Do not let product enter drains.
Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion.

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Methods for cleaning up

Absorb with liquid-binding material e.g.: inert absorbent kieselguhr, universal binder
Disposal according to local authority regulations.
Clean contaminated surface thoroughly.

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

Local ventilation. Always close container tightly after removal of product.
Do not inhale vapours / aerosols.

Advice on protection against fire and explosion

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

Storage**Requirements for storage areas and containers**

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

Suitable materials glass
Unsuitable materials Plastics, rubber, mild steel

Storage stability

15 - 25 °C
Recommended storage temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**• **heptane [and isomers]**

CAS-No.	142-82-5	EC-No.	205-563-8
Control parameters	500 ppm 2085 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	500 ppm		Time Weighted Average (TWA):(EH40 WEL)

Engineering measures

Ensure that there is suitable air extraction / ventilation at the workplace or at the working machines.
Extractor suction on specific objects.

Personal protective equipment**Respiratory protection**

If aerosol or mists are formed: Respirator with brown A-type filter,
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 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)

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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 protection

goggles

Hygiene measures

Use suitable skin protective agents before handling product. Cleanse and apply cream to skin after work. Preventive skin protection recommended.

Take off all contaminated clothing immediately.

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

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless to brownish
Odour	characteristic

Safety data

pH	not determined	
Melting point/range	-90.6 °C	
	related to substance:	Heptane
Boiling point/range	98.4 °C	
	related to substance:	Heptane
Flash point	-4 °C	
	related to substance:	Heptane
Ignition temperature	215 °C	
	related to substance:	Heptane
Lower explosion limit	1 %(V)	
	related to substance:	Heptane
Upper explosion limit	7 %(V)	
	related to substance:	Heptane
Vapour pressure	48 hPa	
	related to substance:	Heptane
Density	0.68 g/cm ³	
	related to substance:	Heptane
Water solubility	practically insoluble	
Viscosity, dynamic	0.42 mPa.s (20 °C)	
	related to substance:	Heptane

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10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid air and heat effect. Protect from the action of light.
Materials to avoid	strong oxidizing agents
Hazardous decomposition products	no data available
Hazardous reactions	Danger of formation of explosive vapour/air mixtures.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: > 15000 mg/kg related to substance: Heptane
Acute inhalation toxicity	LC50 Rat: 103 g/m ³ / 4 h related to substance: Heptane
Eye irritation	Rabbit slightly irritating related to substance: Heptane
Mutagenicity assessment	no evidence of mutagenic effects
Human experience	To date handling this product has not been known to cause any detrimental effects. Irritating to respiratory system and skin.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects**

Toxicity to fish	LC50 Carassius auratus: 4 mg/l / 24 h related to substance: Heptane
	EC50 Daphnia magna: 1.5 mg/l / 48 h related to substance: Heptane

Further information on ecology

Further Information	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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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	1993
Packaging group	II
orange warning plate	33 / 1993
Description of the goods (Technical name)	
FLAMMABLE LIQUID, N.O.S.	
(contains: Heptane)	

Sea transport IMDG-Code/GGVSee

Class	3
UN-No	1993
Packaging group	II
EmS	F-E, S-E
Proper technical name (Proper shipping name)	
FLAMMABLE LIQUID, N.O.S.	
(contains: Heptane)	

Air transport ICAO-TI/IATA-DGR

Class	3
UN-No	1993
Packaging group	II
Proper technical name (Proper shipping name)	
Flammable liquid, n.o.s.	
(contains: Heptane)	

Inland waterway transport ADN/ADNR/GGVBinSch (Germany)

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1993
Packaging group	II
Description of the goods (Technical name)	
FLAMMABLE LIQUID, N.O.S.	
(contains: Heptane)	

Loading instructions/Remarks

IATA_C	ERG-Code 3H
IATA_P	ERG-Code 3H
ADR	Observe listed materials regulation §7, paragraph 1 GGVSE
ADR	Special provision 640D
RID	Special provision 640D
ADNR	Special provision 640D

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IATA_C	USA: Observe RQ
IATA_P	USA: Observe RQ
IMDG	USA: Observe RQ

15. REGULATORY INFORMATION**Labelling according to EC Directives****hazard-defining component(s)**

- heptane [and isomers]
- N,N-dimethyl-p-toluidine

Symbol(s)	F Xn N	Highly flammable Harmful Dangerous for the environment
R-phrases(s)	R11 R20/21/22 R33 R38 R50/53 R65 R67	Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
S-phrases(s)	S 9 S16 S29 S33 S60 S61 S62	Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not empty into drains. Take precautionary measures against static discharges. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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.
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16. OTHER INFORMATION**Risk phrase (R phrase) texts**

- **heptane [and isomers]**
R11 Highly flammable.
R65 Harmful: may cause lung damage if swallowed.
R38 Irritating to skin.
R67 Vapours may cause drowsiness and dizziness.
R50 Very toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

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- **N,N-dimethyl-p-toluidine**

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R33	Danger of cumulative effects.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

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.