

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

A Dentsply International Company

Ceramco 3, Die Release

Material no.		Version	4.0 / GB
Specification	141352	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 3, Die Release
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**

• Stoddard solvent		< 10%	
CAS-No.	8052-41-3	EC-No.	232-489-3
	Carc.Cat.2; R45		
	Xn; R65		
• xylene, mixture of isomers		<= 12%	
CAS-No.	1330-20-7	EC-No.	215-535-7
	R10		
	Xn; R20/21		
	Xi; R38		
• n-hexane		>= 80%	
CAS-No.	110-54-3	EC-No.	203-777-6
	F; R11		
	Repr.Cat.3; R62		
	Xn; R65, R48/20		
	Xi; R38		
	R67		
	N; R51, R53		

See chapter 16 for text of risk phrases

3. HAZARDS IDENTIFICATION

Highly flammable.
Harmful by inhalation and in contact with skin.
Irritating to skin.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of impaired fertility.
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

Take off contaminated clothing and shoes immediately.
Wash off immediately with 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**

Water spray, foam, CO₂, dry powder.

Specific hazards during fire fighting

Heavier than air vapour.
Formation of flammable or explosive vapour/air mixtures possible.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Avoid coming into contact with the following substance/substance classes: Product.

Environmental precautions

Prevent substance from entering soil, natural bodies of water and sewer systems.

Methods for cleaning up

Take up with liquid-binding material (e.g. sand, universal binder, diatomaceous earth). Store used liquid binder closed in stable, labelled containers.

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

Provide sufficient ventilation and exhaust at the workplace.

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gases/vapours not smoke fumes.
Protect from heat sources, heat and exposure to direct sunlight
Do not allow containers and vessels to stand open

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 containers tightly closed in a cool, well-ventilated place.

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

- **xylene, mixture of isomers**

CAS-No.	1330-20-7	EC-No.	215-535-7
Control parameters	50 ppm 221 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	100 ppm 442 mg/m ³		Short Term Exposure Limit (STEL):(EU ELV)
Control parameters	Can be absorbed through the skin.		Skin designation:(EU ELV)
Control parameters	50 ppm 220 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	100 ppm 441 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	Can be absorbed through the skin.		Skin designation:(EH40 WEL)

- **n-hexane**

CAS-No.	110-54-3	EC-No.	203-777-6
Control parameters	20 ppm 72 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	20 ppm 72 mg/m ³		Time Weighted Average (TWA):(EU ELV)

Engineering measures

Local ventilation.

Personal protective equipment**Respiratory protection**

If gas/fumes occur for short periods: Respirator with brown A-type filter
If aerosol or mists are formed: 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

Safety glasses with side-shields

Hygiene measures

Remove immediately all contaminated clothing.

Preventive skin protection recommended.

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	oily liquid
Colour	colourless, clear
Odour	oily

Safety data

Melting point/range	ca. -97 - -93 °C
Boiling point/range	ca. 65 - 70 °C
Flash point	ca. -26 - -23 °C
Ignition temperature	ca. 224 °C
Lower explosion limit	1.2 %(V) related to substance: hexane
Upper explosion limit	7.4 %(V) related to substance: hexane
Vapour pressure	ca. 133 hPa (20 °C)
Density	ca. 0.66 g/cm ³
Water solubility	low

10. STABILITY AND REACTIVITY

Conditions to avoid	Keep away from sources of heat, flames and sparks. Keep away from sources of ignition - No smoking. Take precautionary measures against static charges.
Materials to avoid	strong oxidizing agents
Hazardous decomposition products	In case of fire hazardous decomposition products may be produced such as: aldehydes, Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of

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nitrogen (NO_x), dense black smoke.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: 28710 mg/kg Test substance: hexane
Acute dermal toxicity	LD50 Rabbit: > 2000 mg/kg Test substance: hexane
Skin irritation	Rabbit irritating Longer lasting skin contact may lead to degreasing of the skin and, in consequence, to irritations/dermatitis. related to substance: hexane
Eye irritation	Rabbit irritating related to substance: hexane
Human experience	Vapour during processing may be irritating to the respiratory tract and to the eyes.

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

No results of animal experiments with this preparation are available.

Further information on ecology

Further Information	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow to enter waste water drains, watercourse or soil. related to substance: hexane
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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

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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.
(cont. xylene, contains hexane)

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.
(cont. xylene, contains hexane)

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.
(cont. xylene, contains hexane)

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.
(cont. xylene, contains hexane)

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
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)**

- Stoddard solvent
- xylene, mixture of isomers
- n-hexane

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Symbol(s)	F Xn	Highly flammable Harmful
R-phrase(s)	R11 R38 R48/20 R62	Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility.
S-phrase(s)	S16 S33 S45 S61 S62	Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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.

16. OTHER INFORMATION**Risk phrase (R phrase) texts**• **Stoddard solvent**

R45 May cause cancer.
R65 Harmful: may cause lung damage if swallowed.

• **xylene, mixture of isomers**

R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.

• **n-hexane**

R11 Highly flammable.
R62 Possible risk of impaired fertility.
R65 Harmful: may cause lung damage if swallowed.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R38 Irritating to skin.
R67 Vapours may cause drowsiness and dizziness.
R51 Toxic 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.

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