

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

A Dentsply International Company

Cristobal+ Metal primer

Material no.		Version	2.1 / GB
Specification	144554	Revision date	10.09.2005
VA-Nr		Print Date	14.09.2005
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Cristobal+ Metal primer

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**

• acetone		> 80%	
CAS-No.	67-64-1	EC-No.	200-662-2
	F; R11		
	Xi; R36		
	R66		
	R67		

See chapter 16 for text of risk phrases

3. HAZARDS IDENTIFICATION

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

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 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.

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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.

Notes to physician

after absorbing large amounts of substance:

gastric lavage.

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

Water spray, foam, CO₂, dry powder.

Extinguishing media which must not be used for safety reasons

high volume water jet

Specific hazards during fire fighting

Heavier than air vapour.

Forms explosive mixtures with air.

Special protective equipment for fire-fighters

In case of fire: wear a self contained respiratory apparatus

Wear suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Keep away from sources of ignition - No smoking.

Avoid contact with skin and eyes.

Do not inhale vapours / aerosols.

Ensure adequate ventilation.

Environmental precautions

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

Do not allow to run into water channels, surface water, or into the ground.

Methods for cleaning up

Take up mechanically or with an absorbent material.

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: universal absorbent, absorbent for liquids

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

Provide good ventilation or extraction.

Avoid contact with skin and eyes.

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Advice on protection against fire and explosion

Take precautionary measures against static charges, keep away from sources of ignition.
Do not smoke.

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**• **acetone**

CAS-No.	67-64-1	EC-No.	200-662-2
Control parameters	500 ppm 1210 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	500 ppm 1210 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	1500 ppm 3620 mg/m ³		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**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (gas filter, filter type A) or wear a self contained respiratory apparatus

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	240 min
Method	Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Eye protection

goggles

Hygiene measures

Remove contaminated or saturated clothing.
Do not inhale vapours / aerosols.
Avoid contact with the skin and the eyes.
Use barrier cream regularly.

Protective measures

suitable protective clothing

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9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless
Odour	characteristic

Safety data

pH	not determined	
Melting point/range	-95 °C	
	related to substance:	Acetone
Boiling point/range	56 °C	
	related to substance:	Acetone
Flash point	-18 °C	
Lower explosion limit	2.2 %(V)	
	related to substance:	Acetone
Upper explosion limit	13 %(V)	
	related to substance:	Acetone
Vapour pressure	233 hPa	
	related to substance:	Acetone
Density	ca. 0.8 g/cm ³	(20 °C)
Water solubility	soluble	

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 acids, bases, strong oxidant, alkalis.
Hazardous decomposition products	Acetic acid, peroxides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: 5800 mg/kg related to substance: Acetone
Acute inhalation toxicity	LC50 Rat: 76 mg/l / 4 h related to substance: Acetone
Acute dermal toxicity	LD50 Rabbit: 20000 mg/kg related to substance: Acetone

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Skin irritation	irritating related to substance: Acetone
Eye irritation	irritating related to substance: Acetone
Human experience	Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact.

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

Biodegradability	Result: Readily biodegradable. related to substance: Acetone
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Behaviour in environmental compartments

Mobility	KOC: ((air)) high related to substance: Acetone
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Ecotoxicity effects

No ecotoxicological data is available for this product.

Toxicity to fish	LC50 <i>Lepomis macrochirus</i> : 8300 mg/l / 96 h related to substance: Acetone
Toxicity to daphnia	EC50 <i>Daphnia magna</i> : 12600 - 12700 mg/l / 48 h related to substance: Acetone
Toxicity to bacteria	EC50 <i>Pseudomonas putida</i> : ca. 1700 mg/l Method: literature related to substance: Acetone

Further information on ecology

Chemical Oxygen Demand (COD)	2070 mg/g related to substance: Acetone
Biochemical Oxygen Demand (BOD)	1850 mg/g related to substance: Acetone
Further Information	Prevent penetration into soil, stretches of water and drainage systems.

13. DISPOSAL CONSIDERATIONS**Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

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14. TRANSPORT INFORMATION**Land transport ADR/RID/GGVSE (Germany)**

Class	3
ADR/RID-Labels	3
UN-No	1090
Packaging group	II
orange warning plate	33 / 1090
Description of the goods (Technical name)	ACETONE

Sea transport IMDG-Code/GGVSee

Class	3
UN-No	1090
Packaging group	II
EmS	F-E, S-D
Proper technical name (Proper shipping name)	ACETONE

Air transport ICAO-TI/IATA-DGR

Class	3
UN-No	1090
Packaging group	II
Proper technical name (Proper shipping name)	Acetone

Inland waterway transport ADN/ADNR/GGVBinSch (Germany)

Class	3
ADR/RID-Labels	3
UN-No / Substance number	1090
Packaging group	II
Description of the goods (Technical name)	ACETONE

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****hazard-defining component(s)**

- acetone

Symbol(s)	F Xi	Highly flammable Irritant
R-phrases(s)	R11 R36 R66	Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

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	R67	Vapours may cause drowsiness and dizziness.
S-phrase(s)	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.
	S 9	Keep container in a well-ventilated place.

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**• **acetone**

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

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.

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