

**SAFETY DATA SHEET****QUATTROTI SRL****PRODUCT NAME:** DENTAL D®  
**TYPE:** WHITE AND PINK SHADESPAGE: 1/4  
**REF NUMBER:** DTB-S-003  
**REVISION:** 2007/02/28**1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**IDENTIFICATION OF THE PRODUCT:** DENTAL D®

**CHEMICAL FAMILY:** Acetal Resin

**PRODUCT DESCRIPTION:** Compact disks (Ø=19mm approx, h=9mm approx) in various white and pink shades.

**PRODUCT USE:** Fabrication of dental prosthesis

**SUPPLIER:** QUATTROTI SRL.  
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**2 COMPOSITION / INFORMATION ON INGREDIENTS****Chemical Composition** : Poly-oxy-methylene, pigments.**3 HAZARDS IDENTIFICATION****MAJOR HAZARDS** : Hazardous decomposition products: formaldehyde  
The European Community classifies formaldehyde among the substances which may cause not reversible effects.**4 FIRST AID MEASURES**

**INHALATION :**  
Take the victim, if any, to fresh air in case of accidental exposure to fumes caused by overheating or Combustion. In case of prolonged contact, seek medical advice.

**SKIN CONTACT:**  
In case of contact with melted polymer, quickly cool the skin with cold water.  
No attempt should be made to tear off polymer from the skin. Seek medical advice.

**EYE CONTACT**  
In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

**INGESTION:**  
First aid is normally not required. Drink water.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING SUITABLE MEDIA**  
Carbon dioxide (CO<sub>2</sub>), fire extinguishing powder, foam, water.

**SPECIAL FIRE PRECAUTIONS:**  
Respiratory and dress protection required for fire fighting personnel.

**ADDITIONAL INFORMATION:**  
It burns upon being flamed, without external heat source /IEC60695-11-10:HB)  
It burns with colourless flame. Quick cooling with water is good practice.  
Dispose of residues and contaminated water strictly in conformity to norms.

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**6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Ventilate the place. Refer to Protection Norms as indicated in Sections 7 and 8

**ENVIRONMENT PRECAUTIONS:** Avoid material to contaminate superficial waters.

**METHODS FOR CLEANING UP:** Immediately sweep disks away from the floor to avoid slip hazard.

**ADDITIONAL INFORMATION:** Use mechanical movement equipment

**7 HANDLING AND STORAGE****HANDLING**

**Technical cautions** : None during working

**- precautions** : General precautions as for all plastic materials and elastomers:  
 Ensure adequate vapour ventilation next to exicators and machinery and wherever Powders or volatile substances may be generated.  
 Avoid breathing vapours which may be freed upon opening packaging.  
 Avoid discharge of static electricity (which might cause ignition of organic vapours)

**- advices for a safe use** : Protect from contamination

**STORAGE**

**Technical cautions** : None  
**- warehousing cautions** : None  
**- incompatible products** : None  
**- packaging material** : None

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with exposure limits**

Components	CAS No.	Type	Control Parameters	Revision	Base
Formaldehyde	50-00-0	CEIL		2000	OEL (IT)

**PERSONAL PROTECTION**

**Eye Protection:** Where contacts may occur, wear safety glasses.

**Hand Protection:** Where contact may occur with hot material, wear thermal resistant gloves.

**Respiratory Protection:** Where overexposure by inhalation may occur, use of suitable protection means is compulsory

**Skin and Body Protection:** wear clothes and shoes resistant to heat in case of contact risk with hot melted material

**General precautions for any plastic materials and elastomers:** avoid breathing vapors or fumes exhaled by the melted polymer

**Hygiene :** Wash your hands before any work pause and at the end of the working day.

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**PHYSICAL STATE:** Solid  
**FORM/COLOUR:** Disks (Ø18mm ; h=9mm approx)  
(in various tooth shades)  
**ODOR:** Formaldehyde

**Safety Data:**  
**PH (DegC) :** Not Applicable  
**MELTING POINT/RANGE:** 172-184 DegC  
**DECOMPOSITION POINT:** >230 DegC  
**IGNITION POINT:** 325 DegC  
**SELF IGNITION POINT** 375 DegC  
**DENSITY:** 1.40-1.45 g/cm<sup>3</sup>  
Method : ISO 1183  
**SOLUBILITY IN WATER:** Insoluble

**10 STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:**  
Avoid resin to remain in fusion at temperatures above 230 DegC for too long

**MATERIALS TO AVOID**  
Heavy acids, bases and oxidant agents; halogenated compounds except the included

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Formaldehyde

**ADDITIONAL INFORMATION:**  
Small quantities of hazardous gases and/or dusts may be released during drying, discharging and moulding. They may irritate eyes, nose and throat. No decomposition occurs if used correctly.

**11 TOXICOLOGICAL INFORMATION****ADDITIONAL INFORMATION :** None**12 ECOLOGICAL INFORMATION**

Effects bound to ecotoxicity

**13 DISPOSAL CONSIDERATIONS**

Product can be recycled as most of the thermoplastic materials.  
Recycling is advisable as compared to normal disposal.  
Do not contaminate ponds, canals, water flows with the product and/or the container.  
If recycling not possible please attend local laws.  
It can be disposed of if local laws allows it.

Contaminated containers : contaminated containers must be given to authorized local companies for recycling and/or disposal.

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Non-dangerous material according to transportation regulations

**15 REGULATORY INFORMATION****INFORMATION AS PER EEC DIRECTIVE**Non-hazardous substance or preparation, as per EEC Directive 67/548/EEC or 99/45/EEC  
According to EEC Directives and/or local laws, the product needs not to be labelled**RUNNING DIRECTIVE :** 93/42/EEC – Class IIa.**16 OTHER INFORMATION****FINAL USE :** Fabrication of dental prostheses like: clasps, provisional bridges, space maintainers, partial prostheses, orthodontic devices, abutments. Do not use for Medical Devices forecasting permanent implantology in humans.

- Note 1           \* Always ensure adequate ventilation of the workplace.  
                  \* Local exhaust ventilation of process equipment may be needed.  
                  \* Avoid breathing vapors or fumes
- Note 2           \* Incorrect operation of processing equipment may cause thermal degradation of the  
                  polymer and a potential danger through inclusion of bubbles of air or other gases in material with  
                  subsequent production of high temperatures. To avoid this the following temperatures are  
                  recommended:  
                  Injection moulding:    220 DegC
- Note 3           \* Carefully read user's manual and safety data sheet before use.

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