

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

075896501

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

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**MATERIALSAFETY DATA SHEET: EDTA SOLUTION, 17 %**

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IDENTITY

Trade Name: *EDTA Solution, 17 %*  
Chemical Description: 17 % Ethylenediaminetetraacetic acid in aqueous solution  
Product Use: Dental chelating agent used to debride root canals

SECTION I

*Pulpdent Corporation* Phone Numbers  
80 Oakland Street 24 Hour Emergency: 1-800-535-5053  
Watertown, MA 02472 USA Customer Service: 1-800-343-4342/1-617-926-6666  
Date Prepared: September 1, 2009

SECTION II - INGREDIENTS

<i>Ingredients</i>	<i>CAS Number</i>	
Ethylenediaminetetraacetic acid	6381-92-6	
DOT HAZARD CLASSIFICATION: Not regulated		WHMIS CLASSIFICATION: Not regulated
NFPA HMIS RATING: HEALTH: 0	FLAMMABILITY: 0	REACTIVITY: 0

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Specific gravity: 1.00	Solubility in water: Soluble	pH: 7 ± 0.2
Odor: None	Odor Threshold: Not available	Appearance: Clear liquid

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash point: Not applicable Auto-ignition temperature: Not applicable  
Flammable limits: Not applicable  
Hazardous Combustion Products: Ammonia, nitrogen oxides under fire conditions.  
Extinguishing Media: Water fog, alcohol foam, CO<sub>2</sub>, dry chemical  
Special Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus.  
Unusual Fire and Exposure Hazards: None

SECTION V - REACTIVITY DATA

Stability: Stable	Conditions to avoid: None
Incompatibility: Strong oxidizing agents	
Hazardous Decomposition Products: Ammonia, nitrogen oxides under fire conditions.	
Hazardous Polymerization: Will not occur	Conditions to avoid: None

SECTION VI - HEALTH HAZARD DATA

*Summary of Acute Hazards:* Minimal health hazard under normal conditions of use.

<i>Route of Exposure</i>	<i>Signs and Symptoms</i>
Inhalation	None
Eye contact	May cause transient irritation.
Skin absorption	None
Skin contact	Non-irritating

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Ingestion None expected under normal conditions of use.

*Summary of Chronic Hazards:* None known

Carcinogenicity Not carcinogenic in long term animal studies.

Teratogenicity None known

Mutagenicity None known

Reproductive toxicity None known

*Emergency First Aid Procedures*

Inhalation Not applicable

Eye contact Irrigate immediately with running water. Seek medical care for persistent irritation.

Ingestion For large amounts: Consult physician.

Skin contact Wash off with running water.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storage Precautions: None needed.

Release or spill: Wear gloves and safety glasses. Pick up with absorbent material, such as paper or cloth towels.

Waste Disposal Method: Follow all government regulations.

Other Precautions: Wash hands after use.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: Not necessary under normal conditions of use.

Ventilation: No special ventilation required under normal conditions of use.

Protective Gloves: Recommended

Eye Protection: Safety glasses are recommended under normal conditions of use.

Other Protective Clothing or Equipment: Emergency eye wash fountain should be close by and maintained.

Work / Hygienic Practices: Wash hands after use.

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**Safety Data Sheet**Trade Name: **EDTA Solution, 17%****1.0 Commercial Product Name and Supplier**

1.1	Commercial product name / designation	EDTA Solution, 17%
1.2	Application / Use	Dental chelating agent used to debride root canals
1.2.2	SIC	851 Human health activity
1.2.3	Use Category	55
1.3	Manufacturer	<b>Pulpdent Corporation</b> 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA
		Telephone: 1 617 926-6666 / Fax: 1 617 926-6262 Email: <a href="mailto:Pulpdent@pulpdent.com">Pulpdent@pulpdent.com</a>
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)
1.5	Authorized European Representative	Advena Limited Tower Business Centre, 2nd Floor, Tower Street, Swatar, BKR 4013 Malta
	UK Responsible Person	Advena Limited Pure Offices, Plato Close Warwick, CV34 6WE United Kingdom

**2.0 Hazards Identification**

2.1	Classification			
2.1.1	Classification according to Regulation (EC) No. 1272/2008 (CLP) <i>Unincorporated powder only</i>	<u>Hazard Class</u> Eye irritation Skin irritation	<u>Hazard Category</u> 2 2	<u>Hazard Statement</u> H319 H315
2.1.2	Classification per Directive 67/548/EEC	Irritant (Xi) ( <i>powder only</i> ); R36/38 (Section 16 for full text of risk phrases)		

**2.2 GHS Label Elements**

Hazard Pictograms

Signal Word: **Warning****Restricted to use by dental professional only****Hazard Statements:***Unincorporated powder only*

H319: Causes serious eye irritation. Category 2.

H315: Causes skin irritation. Category 2.

**Precautionary Statements:**

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352: If on skin, wash with plenty of soap and water.

**3.0 Composition**

3.1	Chemical characterization of the preparation	17% aqueous solution of ethylenediaminetetraacetic acid
3.2	Hazardous Ingredients	

CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP).
60-00-4	Ethylenediaminetetraacetic acid	17%	<i>Unincorporated powder only</i>	<i>Unincorporated powder only</i>

**Safety Data Sheet**Trade Name: **EDTA Solution, 17%**

		Irritant (Xi) / R36/38	Eye irritation; Category 2 Skin irritation; Category 2
<b>4.0</b>	<b>First Aid Measures</b>		
4.1	General Information	EDTA, 17% solution is non-hazardous. EDTA <i>powder</i> may cause mild, mechanical eye irritation or mild skin irritation. Powder may present as a nuisance dust. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.	
4.2	Inhalation	Move person to fresh air. If effects occur, seek medical attention.	
4.3	Skin Contact	Wash skin thoroughly with soap and water.	
4.4	Eye Contact	Keep eyelids apart, flush with running water for 15+ minutes. Remove contact lenses after several minutes. Consult an ophthalmologist for persistent irritation	
4.5	Ingestion	Large amounts: contact Poison Control Center or physician. Induce vomiting only on medical advice.	
4.6	Precautions for first responders	Wear safety glasses and gloves. If a large amount of EDTA powder is present, wear a dust mask.	
4.7	Information for physicians		
	Symptoms	Mild irritation/redness in eyes or on skin after contact. Sneezing or coughing after inhalation of powder.	
	Hazards	EDTA <i>powder</i> may cause mild, mechanical eye irritation, mild skin irritation and sneezing or coughing on inhalation.	
	Treatment	Same as above under First Aid.	
<b>5.0</b>	<b>Fire Fighting Measures</b>		
5.1	Suitable extinguishing media	Whatever is appropriate for surrounding fire	
5.2	Extinguishing media to avoid	Decision should be based on surrounding fire.	
5.3	Special exposure hazards in a fire	None	
5.4	Special protective equipment for fire-fighters	Usual protective equipment is sufficient.	
<b>6.0</b>	<b>Accidental Release Measures</b>		
6.1	Personal precautions.	Wear safety glasses, gloves, and lab coat.	
6.2	Environmental precautions	Follow all government regulations.	
6.3	Method for clean up	Liquid: Absorb or wipe up spill with paper towels or disposable cloths. Collect for disposal in covered container. Wash area with soap and water. Collect powder spill without dispersing into air. Place material in covered container. Wash area of spill with soap and water.	
<b>7.0</b>	<b>Handling and Storage</b>		
7.1	Handling	<i>For intraoral use only</i> by trained dental professionals. Follow good hygiene practices. Do not smoke, eat or drink while using.	
7.2	Storage	Keep container closed. Store product in original container at cool room temperature (< 25°C). Shelf life for unopened product is two years from date of manufacture, provided proper storage.	
7.3	Specific uses	Dental chelating agent used to debride root canals.	

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<b>8.0 Exposure Controls / Personal Protection</b>		
8.1	Exposure limit values	PEL: Not established. TLV: Not established.
8.2	Exposure controls	
8.2.1	Occupational exposure controls	No special equipment required.
8.2.1.1	Respiratory protection	None required under normal conditions of use of EDTA, 17% solution.
8.2.1.2	Hand protection	No special requirements under normal conditions of use.
8.2.1.3	Eye protection	Safety glasses
8.2.1.4	Skin protection	Good personal hygiene, lab coat and gloves. Wash hands after use.
8.2.1.5	Other controls	Emergency eye wash fountain close by.
8.2.2	Environmental exposure controls	Follow all government regulations.
<b>9.0 Physical and Chemical Properties</b>		
9.1	Characteristics	
9.1.1	Appearance /Color / Physical state	Clear, colorless liquid
9.1.2	Odor	None
9.2	Important health, safety and environmental information	
9.2.1	pH	6.8 to 7.4
9.2.2	Boiling point	212°F / 100°C
9.2.3	Flash point	Not applicable
9.2.4	Flammability (solid, gas)	Not applicable
9.2.5	Explosive properties	Not applicable
9.2.6	Oxidizing properties	Not applicable
9.2.7	Vapor pressure	Not determined
9.2.8	Specific gravity	1.000
9.2.9	Solubility in water	Soluble
9.2.10	Partition coefficient	Not determined
9.2.11	Viscosity	Not determined
9.2.12	Vapor density	Not determined
9.2.13	Evaporation rate	Not determined
<b>10.0 Stability and reactivity</b>		
10.1	Conditions to avoid	None known
10.2	Materials to avoid	Strong oxidizing agents
10.3	Hazardous decomposition products	Carbon monoxide, carbon dioxide, nitrogen oxides.
10.4	Further information	Stable material
<b>11.0 Toxicological information</b>		
11.1	Acute toxicity	Not toxic. Oral rat LD50: 2000 mg/kg
11.2	Irritation and corrosiveness	May be irritating to eyes or skin on contact.
11.3	Sensitization	Not applicable
11.4	Sub-acute, sub-chronic and prolonged toxicity	None known
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
11.6	Empirical data	Not available
11.7	Clinical experience	Using EDTA as part of root canal treatment is a well-established (20+

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years), industry-accepted, safe/effective endodontic practice.

<b>12.0</b>	<b>Ecological Information</b>	
12.1	Ecotoxicity	Not toxic. Follow all government regulations.
<b>13.0</b>	<b>Disposal Considerations</b>	
13.1	Regulations	Follow all local and national government regulations.
<b>14.0</b>	<b>Transport Information</b>	
14.1	Restrictions	Non-hazardous material / Not regulated.
<b>15.0</b>	<b>Regulatory Information</b>	
15.1	EU	Class IIa medical device under the MDD 93/42/EEC.
15.2	US FDA	Class II medical device
15.3	Health Canada	Class II medical device
<b>16.0</b>	<b>Other information</b>	
16.1	List of relevant R phrases	R36, Irritating to eyes. R38, Irritating to skin.
16.2	Hazard Statements	H319: Causes serious eye irritation. Category 2. H315: Causes skin irritation. Category 2.
16.3	Precautionary Statements	P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352: If on skin, wash with plenty of soap and water.
16.4	Restrictions on use	Pulpdent products are for use by dental professionals only.
16.5	Further information	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.
16.6	Sources of key data	National Institute for Occupational Safety (NIOSH) US Occupational Safety and Health Administration (OSHA) Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency
16.7	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format and Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically, Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.