

## 1. Chemical Product and Company Identification

**Product Name:** PacEndo™ EDTA

### Contact Information:

PAC-DENT INTERNATIONAL, INC.  
670 ENDEAVOR CIRCLE  
BREA, CA 92821  
Telephone: 909-839 -0888  
Hours: Mon.- Fri. 9:00 am. - 5:30 pm. P.S.T.

**CHEMTREC (24HR Emergency Telephone), call:** 1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Serious eye damage/eye irritation	Category 2A
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes serious eye irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Wear eye/face protection.
<b>Response</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
(Ethylenedinitrilo)tetraacetic Acid Disodium		6381-92-6	90 - 100

## 4. First-aid measures

<b>Inhalation</b>	If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
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Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	None known.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media	Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Water.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep upwind. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear a dust mask if dust is generated above exposure limits.
Methods and materials for containment and cleaning up	Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Prevent entry into waterways, sewer, basements or confined areas.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes. Wear appropriate personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands thoroughly after handling. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Keep container tightly closed. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS).

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### 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Ensure adequate ventilation, especially in confined areas.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Avoid contact with eyes. Use tight fitting goggles if dust is generated.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	Wear respirator with dust filter.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

<b>Appearance</b>		<b>Flash point</b>	Not available.
<b>Physical state</b>	Liquid	<b>Evaporation rate</b>	Not available.
<b>Color</b>	Clear	<b>Flammability (solid, gas)</b>	Not available.
<b>Odor</b>	Odorless.	<b>Vapor pressure</b>	Not available.
<b>pH</b>	7.5	<b>Vapor density</b>	Not available.
<b>Melting point/freezing point</b>	Not available.	<b>Relative density</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.		

### 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Metals.
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).

### 11. Toxicological Information

<b>Likely Routes of Exposure</b>	Dermal (Eye), Ingestion
<b>Hazardous Component</b>	Sodium Xylenesulphonate, Tetrasodium Ethylene Diamine Tetraacetate
<b>Toxicity</b>	The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the eyes, and mucous membranes.

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<b>Eye Contact</b>	irritation, pain, swelling, lacrimation, or photophobia persist.
<b>Skin Contact</b>	essentially nonirritating to skin.
<b>Ingestion</b>	may cause irritation to digestive tract.
<b>Inhalation</b>	not a likely route of exposure.
<b>Sensitization</b>	not a sensitizer.
<b>Carcinogenicity</b>	does not contain any substances classified as carcinogens by NTP, ACGIH, IARC or OSHA
<b>Mutagenicity</b>	not mutagenic
<b>Reproductive Toxicity</b>	not toxic for reproduction nor is this product teratogenic.

## 12. Ecological Information

<b>Ecotoxicity</b>	No data
<b>Persistence / Degradability</b>	This material degrades rapidly in the environment
<b>Bioaccumulative Potential</b>	will not bioconcentrate in fish and aquatic organisms nor will it adsorb to sediment and suspended organic matter.
<b>Mobility in Soil</b>	moderate to high mobility in soil
<b>Other Adverse Effects</b>	none known.

This product does not contain persistent, bioaccumulative and toxic chemicals (PBT's) nor does this product contain any very persistent and very bioaccumulative chemicals (vPvB's).

## 13. Disposal Considerations

<b>Disposal</b>	Dispose of in accordance with federal, state and local regulations. Additional Disposal Considerations: Dispose if shelf-life has been exceeded.
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## 14. Transport Information

<b>Restrictions</b>	Non-hazardous material / Not regulated.
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## 15. Regulatory Information

<b>SARA Sections 302 and 304</b>	This product does not contain Extremely Hazardous Substances (EHS) and is not subject to emergency planning requirements.
<b>CERCLA</b>	This product does not contain CERCLA Hazardous Substances and is not subject to reporting requirements. SARA Section 313:

Tetrasodium Ethylene Diamine Tetraacetate (EDTA)	CAS #: 64-02-8	17%w/w
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### International Inventories:

<b>US (TSCA):</b>	The components within this product are included on the TSCA Inventory of Chemical Substances
<b>Canada (DSL):</b>	All ingredients are on the inventory or exempt from listing.
<b>European Union (EINECS):</b>	All ingredients conform to the EU requirements.
<b>Japan (ENCS):</b>	All other ingredients are on the inventory or exempt from listing.
<b>Philippines (PICCS):</b>	All other ingredients are on the inventory or exempt from listing.
<b>South Korea (KECL):</b>	All other ingredients are on the inventory or exempt from listing.
<b>Australia (AICS):</b>	All other ingredients are on the inventory or exempt from listing.
<b>New Zealand (NZIoC):</b>	All other ingredients are on the inventory or exempt from listing.
<b>China (IECSC):</b>	All other ingredients are on the inventory or exempt from listing.

**California Proposition 65:** There are no chemicals within this mixture on the Proposition 65 List.

**Canadian Regulations require the inclusion of the following statements under "Regulatory Information":** This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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### 16. Other Information

**National Fire Protection Association (NFPA) Ratings (estimated):** This information is intended solely for the use of individuals trained in the NFPA system.

**Health: 0**

**Flammability: 0**

**Reactivity: 0**

**Disclaimer:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Pac-Dent International Inc. Products be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Pac-Dent International Inc. Products has been advised of the possibility of such damages.

**Section 1: Identification**

**Product Name:** PacEndo™ Chlorhexidine  
**Product Use:** Irrigate and cleanse root canal systems after endodontic instrumentation  
**Manufacturer:** Pac-Dent International Inc.  
**Address:** 670 Endeavor Circle, Brea, CA 92821

**Phone:** (909) 839-0888 **Fax:** (909) 839-0881  
**24 HR. Emergency Telephone Number CHEMTREC (North America) :** 800-424-9300  
**24 HR. Emergency Telephone Number CHEMTREC (International) :** +1 (703) 527-3887

**Section 2: Hazard(s) Identification**

**2.1. GHS Classification:**

Health	Environmental	Physical
Acute Toxicity, Oral -Category 5 -H303 Skin Irritation -Category 3 -H316 Serious Eye Damage -Category 2B -H320	Not Applicable	Not Applicable

**2.2. GHS Label:**

OSHA HCS 2012



**WARNING**

<i>Hazard Statements</i>	<i>Precautionary Statements</i>
H303: May be harmful if swallowed H316: Causes mild skin irritation H320: Causes eye irritation	P264: Wash hands thoroughly after handling P280: Wear protective gloves / eye protection 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.

Refer to Section 15.2 for full text of EU Classifications and R/S Phrases.

### Section 3: Composition/Information on Ingredients

Chemical Components	CAS #	EINECS	Weight %
Chlorhexidine Gluconate	18472-51-0	unlisted	2%
Surfactant	N/A	unlisted	<1%

### Section 4: First-Aid Measures

#### 4.1. Description of first aid measures

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid, if irritation persists.

**Skin Contact:** Wash with soap in water.

**Inhalation:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and obtain medical attention if cough or any other symptoms develop.

**Ingestion:** Give large volumes of water. Do not induce vomiting. Obtain medical attention or consult a physician if ingested in large amounts.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** Mild irritation/redness in eyes or on skin after contact. Very hazardous in case of ingestion. Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin.

#### 4.3. Indication of immediate medical attention and special treatment needed

Consult a physician or contact Poison Control Center if chemical solution is ingested in large amounts. Physicians are required to treat victim symptomatically.

### Section 5: Fire-Fighting Measures

#### 5.1. Suitable Extinguishing Media:

Use dry chemical, foam, or carbon dioxide to extinguish fire.

#### 5.2. Fire Fighting Procedures:

Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure, self-contained breathing apparatus with full-face mask and full protective clothing.

**5.3. Unusual Fire and Explosion Hazards:**

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride, and oxides of carbon and nitrogen.

**5.4. Combustion Products:**

Ammonia and nitrogen oxides under fire conditions.

## Section 6: Accidental Release Measures

**6.1. Personal Precautions, Protective Equipment, and Emergency Procedures**

Wear proper personal protective equipment as indicated in Section 8. Follow instructions listed in Section 6.3 to follow clean up procedures.

**6.2. Environmental Precautions**

Follow all government regulations for waste disposal. Prevent release to the environment if possible. Do not flush waste into sewer or waterways.

**6.3. Methods and Materials for Containment and Cleaning Up**

**Small Spills:** Wipe up small amounts with chemical resistant or damp rag which is washed with large amounts of water after each use. After cleaning, flush away traces with water.

**Large Spills:** Absorb with inert, damp non-combustible material, then flush area with water.

## Section 7: Handling and Storage

**7.1. Handling**

For intraoral use only by trained and experienced dental professionals. Follow good hygiene practices. Do not smoke, eat or drink while using. Use suitable protective equipment when handling. Wash thoroughly after handling and avoid any chemical contact with eyes, skin, and clothing. Keep container tightly closed to avoid inhalation or accidental ingestion. Use with adequate ventilation when necessary.

**7.2. Storage**

Store in a tightly closed container. Store container at room temperature in a cool, dry, well-ventilated area away from incompatible substances. Keep containers upright when not in use. Shelf life is thirty months from date of manufacture, provided that it is stored properly. Store at room temperature between 15°-30°C (59°-86°F).



## Section 8: Exposure Controls/Personal Protection

### 8.1. Exposure Limits / Engineering Controls

Chemical Components	ACGIH	NIOSH	OSHA -Final PELs
Chlorhexidine Gluconate	unlisted	unlisted	unlisted
Surfactant	unlisted	unlisted	unlisted

**Engineering Controls:** General ventilation recommended.

### 8.2. Personal Protective Equipment (PPE) Information

**Eye Protection:** Use proper protection – wear safety glasses, as a minimum.

**Skin Protection:** Wash thoroughly after handling.

**Clothing Protection:** Wear gloves. No extra needed under normal conditions of use.

**Respiratory Protection:** S38: In case of insufficient ventilation wear suitable respiratory equipment.

## Section 9: Physical and Chemical Properties

### 9.1. Appearance / Color

**Physical State:** Liquid

**Appearance:** Clear liquid

**Odor:** Odorless or no characteristic odor

**Odor Threshold:** Not applicable

### 9.2. Important health, safety and environmental information

**Flashpoint:** Not applicable

**Autoignition Temperature:** Not applicable

**Boiling Point:** 100°C / 212°F

**Melting Point:** Not determined

**Freezing Point:** Not determined

**Vapor Pressure, mm Hg:** 17.535

**Relative Density:** Not determined

**Vapor Density (Air=1):** 0.62

**Solubility in Water:** Soluble

**Decomposition Temperature:** Not determined

**Pour Point:** Not applicable

**Lower Flammability Limit:** Not applicable

**Upper Flammability Limit:** Not applicable

**Specific Gravity:** 1.01

**Evaporation Rate (Water=1):** Not applicable

**Viscosity:** Not determined

**Octanol/Water Partition Coefficient:** Not determined

**pH:** 5.0-7.0

**Molecular Weight:** Mixture

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable.

**Hazardous Polymerization:** No.

**Hazardous Decomposition Products:** Ammonia, hydrogen chloride, oxides of carbon and nitrogen.

**Incompatible Materials:** Strong oxidizing agents, strong alkalies and strong mineral acids.

**Conditions to Avoid:** None known.

## Section 11: Toxicological Information

### 11.1. Signs and Symptoms of Overexposure

**Eye Contact:** May cause mild eye irritation and could aggravate pre-existing eye disease.

**Skin Contact:** May cause slight to moderate irritation.

**Inhalation:** No significant signs or symptoms indicative of any adverse health hazard.

**Ingestion:** Slightly toxic. Ingestion of large amounts may cause pain, nausea, stomach cramps, and vomiting.

### 11.2. Additional Toxicity Information

**Target Organ(s):** None known.

**Chronic Effects:** No information found.

**Acute Toxicity:** Slightly toxic.

## Section 12: Ecological Information

No information available.

## Section 13: Disposal Considerations

Dispose of in compliance with governmental regulation (EC 1975L0442-20/11/2003).

To minimize exposure, refer to section 8 (exposure controls/personal protection).

## Section 14: Transport Information

### 14.1. U.S. Department of Transportation (DOT) (N/A = Not applicable)

**Proper Shipping Name:** N/A

**Identification Number:** N/A

**Hazard Class:** N/A

**Packing Group:** N/A

**U.S. DPT Labeling Requirements:** N/A

**IATA Class:** N/A

**IATA Packing Group:** N/A

Not a DOT controlled material (USA). Not regulated.

### 14.2. Other Transportation Information

**By SEA (IMDG):** Not regulated

**By GROUND –Canada (TDG):** Not regulated

**By AIR (IATA):** Not regulated

## Section 15: Regulatory Information

### 15.1. U.S. Federal Regulations

**U.S. –O.S.H.A. Status:** This material is not hazardous under the criteria of the U.S. Federal Hazard Communication Standard.

## Section 16: Other Information

**National Fire Protection Association (NFPA) Ratings (estimated):** This information is intended solely for the use of individuals trained in the NFPA system.

**Health: 1**

**Flammability: 0**

**Reactivity: 0**

**Disclaimer:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Pac-Dent International Inc. Products be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Pac-Dent International Inc. Products has been advised of the possibility of such damages.