

# SAFETY DATA SHEETS

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

073093465

N/A

**Material Safety Data Sheet**  
May be used to comply with  
OSHA's Hazard Communication Standard.  
29 CFR 1900, 1200 Standard must be  
consulted for specific requirements.

**U.S. Department of Labor**  
**Occupational Safety and Health Administration**  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

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**IDENTITY** (As used on label and list)

Endo-CHX

**SECTION I**

**Manufacturer's Name**

Essential Dental Systems, Inc.

**Address (Number, Street, City, State, Zip)**

89 Leuning Street  
South Hackensack, NJ 07606

**Emergency Telephone Number**

**Telephone Number for Information**

(201) 487-9090

**Date Prepared**

March 1, 2009

**SECTION II - Hazardous Ingredients/Identity Information**

**Hazardous Components**

**Other Limits**

(Specific Chemical Identity)	OSHA PEL	ACGIH TLV	Recommended	%
18472-51-0 Chlorhexidine Gluconate	N/A	N/A	N/A	2%

**SECTION III -Physical/Chemical Characteristics**

**Boiling Point**

100°C/212°F

**Vapor Pressure (mm Hg)**

17.535

**Vapor Density (AIR =1)**

N/A

**Solubility in Water**

Soluble

**Appearance and Odor**

Blue Liquid

**Specific Gravity (H<sub>2</sub>O = 1)**

1.01

**Melting Point**

N/A

**Evaporation Rate (Butyl Acetate = 1)**

N/A

**SECTION IV - Fire and Explosion Hazard Data**

**Flash Point (Method Used)**

N/A

**Flammable Limits**

N/A

**LEL**

N/A

**UEL**

N/A

**Extinguishing Media**

Dry Chemical Foam, CO<sub>2</sub>, Dry Chemical

**Special Fire Fighting Procedures**

N/A

**Unusual Fire and Explosion Hazards**

None

**SECTION V - Reactivity Data**

<b>Stability</b>	<b>Unstable</b>	<b>Conditions to Avoid</b>
		N/A
	<b>Stable</b>	
	<b>X</b>	

**Incompatibility (Materials to Avoid)**

Strong oxidizing agent

**Hazardous Decomposition or Byproducts**

N/A

<b>Hazardous Polymerization</b>	<b>May Occur</b>	<b>Conditions to Avoid</b>
N/A		N/A

**Will not Occur****X****SECTION VI - Health Hazard Data**

<b>Routes of Entry:</b>	<b>Inhalation</b>	<b>Skin</b>	<b>Ingestion</b>
	Yes	Yes	Yes

**Health Hazards (Acute and Chronic)**

Hazardous in case of ingestion. Contact with skin may cause irritation. Contact with eyes may cause irritation.

**Carcinogenicity: NTP IARC Monographs OSHA Regulated**

None Known

**Signs and Symptoms of Exposure:**

Contact with skin or eyes may cause irritation.

**Medical Conditions Generally Aggravated by Exposure:**

Unknown

**Emergency and First Aid Procedures:**

Eyes –Flush with copious amounts of water for at least 15 minutes . If pain or redness persists seek medical attention. Skin- Wash with plenty of soap and water. If irritation persists seek medical attention.

Ingestion- Drink plenty of water. If more than 20 mL's have been ingested seek immediate medical attention.

**SECTION VII - Precautions for Safe Handling and Use:****Steps to Be Taken in Case Material is Released or Spilled:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Waste Disposal Method**

Dispose of in accordance with Federal, State, and local authorities.

**Precautions to Be Taken in Handling and Storing:**

Keep container dry. Keep in cool, well-ventilated place. Keep container tightly closed.

**Other Precautions**

None

**SECTION VIII - Control Measures****Respiratory Protection (Specify Type)**

N/A

<b>Ventilation:</b>	<b>Local Exhaust</b>	<b>Special</b>
N/A	N/A	N/A
	<b>Mechanical (General)</b>	<b>Other</b>

**Protective Gloves**

Recommended

**Eye Protection**

Recommended

**Other Protective Clothing or Equipment**

N/A

**Work/Hygienic Practices**

General Safe Practices

The data given here is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties.



# Endo-CHX

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)  
Date of issue: 09/23/2014 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : Endo-CHX  
Product code : 750-16

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Root canal cleanser  
Use of the substance/mixture : For professional use only

#### 1.3. Details of the supplier of the safety data sheet

Essential Dental Systems  
89 Leuning St, South Hackensack, NJ 07606  
Tel: (201) 487-9090  
Email: info@edsdental.com

#### 1.4. Emergency telephone number

Emergency number : +1-201-487-9090 9:00 a.m. to 5:00 p.m. Eastern Standard Time

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Eye Irrit. 2A H319

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H319 - Causes serious eye irritation  
Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective clothing, protective gloves  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: get medical advice/attention

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Chlorhexidine	(CAS No) 55-56-1	2	Eye Dam. 1, H318

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Assure fresh air breathing. Seek immediate medical advice.
First-aid measures after skin contact	: Rinse and then wash skin thoroughly with water and soap. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Do not rub the skin and eyes after direct contact with the product. Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries after eye contact : Causes serious eye irritation. redness, itching, tears.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : On combustion, forms: carbon oxides (CO and CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into inert absorbent material. Collect spills and put it into appropriated container. Ensure all national/local regulations are observed. Dispose of contents/container to comply with applicable local, national and international regulations.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Do not breathe mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Use good personal hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : A washing facility/water for eye and skin cleaning purposes should be present. Provide local exhaust or general room ventilation.

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Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Keep out of reach of children. Keep away from food and drink. Keep away from sources of ignition - No smoking.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : A washing facility/water for eye and skin cleaning purposes should be present. Provide local exhaust or general room ventilation.

Personal protective equipment : Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing. For certain operations, additional Personal Protection Equipment (PPE) may be required.



Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Work in well-ventilated zones or use proper respiratory protection.  
Environmental exposure controls : Avoid release to the environment.  
Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Liquid.  
Colour : Blue  
Odour : Not available  
Odour threshold : No data available  
pH : 6.5 - 7  
Relative evaporation rate (butyl acetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : 1 g/ml at 23 °C / 73 °F  
Solubility : Water: completely soluble  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available

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Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Thermal combustion may release carbon monoxide and dioxide. Fume. Nitrogen oxides (NOx). Hydrogen chloride (HCl).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

Chlorhexidine (55-56-1)	
LD50 oral rat	5000 mg/kg
ATE US (oral)	5000.00000000 mg/kg bodyweight

Skin corrosion/irritation : Not classified  
(Based on available data, the classification criteria are not met)  
pH: 6.5 - 7

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 6.5 - 7

Respiratory or skin sensitisation : Not classified  
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified  
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified  
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified  
(Based on available data, the classification criteria are not met)

Symptoms/injuries after eye contact : Causes serious eye irritation. Redness, itching, tears.

## SECTION 12: Ecological information

### 12.1. Toxicity

Chlorhexidine (55-56-1)	
LC50 fishes 1	1.4 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

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### 12.2. Persistence and degradability

#### Endo-CHX

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

#### Endo-CHX

Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations.

Additional information : Do not re-use empty containers.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description : No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC or 1999/45/EC

No additional information available

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

No additional information available



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### SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
H318	Causes serious eye damage
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*