# CHX / CHX Restorative™





Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18 February 2021 Revision date: 18 February 2021 Version: 1.0

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Trade name : CHX / CHX Restorative™

1.2. Recommended use and restrictions on use

Use of the substance/mixture : 2% chlorhexidine gluconate solution that kills biofilm bacteria in root canals

1.3. Supplier

Inter-Med. Inc. / Vista Dental Products

2200 South Street Racine, WI 53404 T: (877)-418-4782

1.4. Emergency telephone number

Emergency number : 800-424-9300 (North America) / +1 (703) 527-3887 (International)

### SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Serious eye damage/eye irritation Category 2 Causes serious eye irritation

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)

**!**>

Signal word (GHS US) : Warning

Hazard statements (GHS US) : Causes serious eye irritation

Precautionary statements (GHS US) : Wash hands thoroughly after handling.

Wear protective gloves, eye protection.

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.

### 2.3. Other hazards which do not result in classification

No additional information available

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

Not applicable

# SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Chlorhexidine digluconate	(CAS-No.) 18472-51-0	2	Acute Tox. 4 (Oral), H302
			Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

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4.1.	Description	i of first aid	l measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if

necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with water and soap as a precaution. Get medical advice if skin irritation persists.

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First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal

use.

Symptoms/effects after skin contact : May cause slight irritation to the skin.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal

use

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Carbon dioxide. Foam.

Unsuitable extinguishing media : None known.

### 5.2. Specific hazards arising from the chemical

Fire hazard : On combustion, forms: carbon oxides (CO and CO2). Nitrogen oxides. Ammonia. Hydrogen

chloride

Explosion hazard : No direct explosion hazard.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate personnel to a safe area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : No additional risk management measures required.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. In case of inadequate

ventilation wear respiratory protection.

### 6.2. Environmental precautions

No special environmental precautions required.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Dispose of this material and its container at hazardous or special waste collection

point.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations"

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Handle in accordance with good industrial hygiene and safety practice.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

Incompatible materials : Strong oxidizing agents. Strong alkalis. Mineral acids.

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# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### Chlorhexidine digluconate (18472-51-0)

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers

should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Impermeable protective gloves

### Eye protection:

Safety glasses with side shields

### SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Color : Blue
Odor : Odorless

Odor threshold : No data available

pH : 5-6

: No data available Melting point : No data available Freezing point : 100 °C (212 °F) Boiling point Flash point No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not applicable. : 17.535 mm Hg Vapor pressure Relative vapor density at 20 °C No data available Relative density No data available

Specific gravity / density : 1.01

Solubility : No data available Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available No data available **Explosion limits** Explosive properties : No data available Oxidizing properties : No data available

# 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong alkalis. Mineral acids.

### 10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO2). Ammonia. Hydrogen chloride. Nitrogen oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

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

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

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

Chlorhexidine digluconate (18472-51-0)	
LD50 oral rat	2 g/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5 - 6
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5 - 6
Respiratory or skin sensitization	: 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)
Viscosity, kinematic	: No data available
Likely routes of exposure	: Ingestion. Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: May cause slight irritation to the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : This material has not been tested for environmental effects.

Chlorhexidine digluconate (18472-51-0)		
LC50 fish 1	2.08 mg/l	
ErC50 (algae)	>= 0.038 mg/l	
ErC50 (other aquatic plants)	>= 0.49 mg/l	
NOEC (acute)	>= 0.0075 mg/l	
NOEC (chronic)	sediment	

# 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

### **Transportation of Dangerous Goods**

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### Chlorhexidine digluconate (18472-51-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

### CANADA

### Chlorhexidine digluconate (18472-51-0)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

### Chlorhexidine digluconate (18472-51-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### **National regulations**

### Chlorhexidine digluconate (18472-51-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

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# Full text of H-phrases:

H302	Harmful if swallowed
H318	Causes serious eye damage

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

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