

## INSTRUCTION MANUAL

**Catalog No:** A00046

**Components:** 5.25% Sodium Hypochlorite and purified water

**Packaging:** 250 mL, 1000 mL

## SODIUM HYPOCHLORITE ROOT CANAL IRRIGATION SOLUTION

### 1-Description

Sodium Hypochlorite is a 5.25% aqueous solution containing active chlorine. It dissolves both living and necrotic tissues within the root canal system, facilitating cleaning and shaping. It is effective against flora and endotoxins that contaminate the root canal system, disinfecting it with its basic pH and antimicrobial properties. Additionally, Sodium Hypochlorite lubricates the root canal walls during the chemomechanical instrumentation phase and is effective in removing debris and the organic content of the smear layer during the final washing stage. It can be used with EDTA LIQUID and, after complete clearance, with Chlorhexidine.

### 2- Usage Area / Indications

Sodium Hypochlorite is indicated for use during the chemomechanical preparation of the root canal system, removal of the smear layer, surface asepsis after placing a rubber dam (Rubber-Dam), as a topical antiseptic, and during cavity disinfection. The manufacturer recommends using Sodium Hypochlorite Vital™ on

living pulp tissue in vital pulp treatments such as Direct Pulp Coating, Partial Pulpotomy, and Total Pulpotomy. For Revitalization/Revascularization treatments, it is recommended to apply Sodium Hypochlorite Vital™ and EDTA LIQUID as root canal washing solutions.

### 3- Usage

Place a rubber dam before use. Personal protective equipment is recommended for both the physician (glasses, mask, gloves) and the patient (glasses). Sodium Hypochlorite should be transferred into sterile Luer-Lok™ locking syringes. It is recommended to use closed-ended, side-perforated special irrigation needles in sizes 30G and above (31G and 32G), which should be inserted 1 mm shorter than the working length of the root canal. Open-ended needles can be used but pose a risk of apical overflow and should be placed 2-3 mm shorter than the working length. The optimal application pressure should be set between 0.15 mL/s and 0.20 mL/s. Rapid fluid delivery to the root canal system can cause overflow into the periapical tissues, leading to complications such as severe pain, hematoma, paresthesia, bleeding, tissue necrosis, dysphagia, diffuse swelling, and trismus. Each root canal should be irrigated with 5-10 mL of EDTA LIQUID for 1 minute to remove the smear layer, followed by a wash with 10 mL of Sodium Hypochlorite. The wash volume should be increased for diluted concentrations of Sodium Hypochlorite. Sodium Hypochlorite can be activated with preheating ovens, sonic

and ultrasonic devices, and used with dental laser-assisted irrigation (LAI) systems or negative pressure systems.

#### 4- Contraindications

Do not use in patients with hypersensitivity to its ingredients.

#### 5- Side effects

Sodium Hypochlorite should not be used by individuals hypersensitive to chlorine-containing disinfectants or cleaning agents like bleach. In such cases, alternatives like Chlorhexidine and EDTA LIQUID should be preferred.

#### 6- Warning:

Sodium Hypochlorite interacts with other washing agents. Never contact solutions containing Chlorhexidine or chlorhexidine digluconate with Sodium Hypochlorite in the root canal, as this may form a brown-orange sticky precipitate that cannot be removed and may discolor the tooth and interfere with root canal filling materials. To prevent this, perform intermediate washings with sufficient distilled water after applying Sodium Hypochlorite. When mixed with aqueous Na<sub>2</sub>EDTA (disodium EDTA), Sodium Hypochlorite shows a cloudy white color change, reducing its effectiveness. However, there is no significant decrease in active chlorine when freshly mixed with EDTA LIQUID or applied sequentially. Sodium Hypochlorite should not be poured into another bottle from its original packaging and should not be exposed to direct sunlight or

home heating systems. The lid must be closed after use. In case of skin contact, wash immediately with plenty of water and consult a doctor. If swallowed, do not induce vomiting—drink plenty of water and seek medical advice. In case of accidental injection into tissue, seek medical attention immediately. In case of eye contact, wash immediately with plenty of physiological saline and consult an ophthalmologist, as it may cause damage to the cornea and conjunctiva. Keep out of reach of children. Clothes and shoes contaminated with Sodium Hypochlorite can discolor and deform. Change contaminated clothes to avoid skin contact. Barrier measures are recommended for both the patient and the physician.

#### 7- Storage conditions:












Store at room temperature between 5°C – 30°C as recommended. Protect from moisture and extreme heat and cold.

#### NOTE:

Our products are produced for use in dentistry. They are not suitable for use other than by professional dentists. Since the use of the products is under the control of the user other than us, the user is completely responsible for the applications. We recommend using them in accordance with the information and warnings given in the instructions.

**\*\* Disposal:** Products should be treated according to their biological hazards and disposed of in accordance with the country's legal regulations and hospital policies.

## 8- Symbols and Meanings:

	Lot number		Manufacturing Date
	Catalog Number		Manufacturer
	Use on Time		Keep Away from Sunlight
	Warning: Consult the Accompanying Documents		Refer to the Instructions for Use
	Storage Temperature Range		Notified Body
	Store in a Dry Place		

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