

 <p><b>TEN TEXPROS CO. LIMITED</b> Africa's Premier Provider of Linen Solutions</p>	Doc No: TTP.R.L.012	Prepared By:  Ssemuyiga Denis
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## TEN TEXPROS

### SOP FOR PREPARING 0.5% PRESEPT SOLUTION

#### Introduction

Dilution is the process of adding a solvent to a solution to reduce the concentration of the solute. Proper dilution ratios are important for safety and to provide better outcome when using a chemical. Over dilution wastes the product and money and it gives poor results i.e. it may fail to decontaminate infectious linen or remove stains completely. While under dilution could cause safety hazards like skin burns or irritations and may damage linen, machines and other surfaces. Recommended precautions by the manufacturer such as dilution ratios, direction for use and right use of PPE should be respected if desired outcome is to be achieved for a specific application.

#### Purpose

This document provides instructions for the preparation of PRESEPT disinfectant solution to be used in disinfecting soiled and infected linen, worksurfaces, floors, trolleys, washing machines, equipment, and furniture.

#### Scope

This document shall guide laundry staff, housekeepers and ward staff of Ten Texpros when diluting Presept desired for linen processing or when disinfecting other surfaces.

#### Responsibility

It shall be the responsibility of linen management supervisor to train and guide staff on proper dilution of Presept.

It shall be the responsibility of staff to adhere to this guideline when diluting Presept.

Management has the responsibility of providing staff with Presept, desired PPE and other materials.

## MATERIALS REQUIRED

Reagents	Supplies	PPE
<ul style="list-style-type: none"><li>• 2.5g Presept tablet</li></ul>	<ul style="list-style-type: none"><li>• Workplace label</li><li>• Measuring cylinder/Cup of 0.5l</li><li>• 20ltr bucket</li><li>• Permanent marker</li><li>• Chemical resistant tape</li></ul>	<ul style="list-style-type: none"><li>• Safety gloves</li><li>• Head cap</li><li>• Mask</li><li>• Overall</li><li>• Apron</li><li>• Gumboots</li><li>• Safety goggles</li></ul>

## PROCEDURE

### I. Dilution Table

CONCENTRATION OF AVAILABLE CHLORINE (PPM)	VOLUME OF WATER REQUIRED FOR EACH 2.5G TABLET	ITEMS TO BE DISINFECTED	DIRECTIONS FOR USE
140 ppm	10 litres	Soiled and infected linen, worksurfaces, floors, machines, equipment, furniture, cupboards, tote boxes, basins, buckets	<ul style="list-style-type: none"><li>• Immerse linen for 1 hour before main washing.</li><li>• Dump dust worksurfaces, machines and furniture with 0.5% presept solution.</li><li>• Scrub or use a mop system for floors.</li><li>• Soak equipment, buckets, basins, measuring jars/cups for 15-20 minutes etc. Then wash and dry.</li></ul>

## II. How to prepare 0.5% Presept solution

STEP	ACTION	RATIONALE
Step 01	Don PPE appropriately according to risk of exposure.	To protect oneself against irritations from chemical reagents/residues.
Step 02	Obtain a designated, clean and clearly labelled bucket with a cover.	For preparation and storage of Presept solution.
Step 03	Measure 10 litres of water using a measuring jug and pour into the bucket.	Use a permanent marker to mark the water level on the bucket.
Step 04	Add the 2.5g Presept tablet as per dilution table and stir well to mix. Cover the bucket well.	Stir well to ensure that the tablet is fully dissolved in water.
Step 05	Indicate the dates and time of preparation and expiration on the bucket.	The standing time for Presept solution is 24 hours only.

### Labeling instructions

Make and complete the label bearing the product identifier, date and time prepared, expiry date and time and attach it to the appropriate storage bucket.

### Precautions

- i. It irritates eyes.
- ii. Repeated skin contact may cause dermatitis (red, cracked skin) and itching.
- iii. Ingestion of presept solution will irritate the mouth, oesophagus and other tissues of the digestive system.
- iv. Breathing chemical residues or vapour of the solution may irritate the nose, throat, or respiratory system.
- v. Ensure personal safety.
- vi. Ensure that the Presept tin is closed tightly every after use.

**Side effects** People with asthma or other lung problems may be more affected.

### Symbol for hazardous chemicals



### Procedural Notes

- Do not use Presept in work areas containing hydrogen peroxide, acids, formaldehyde/formalin, or alcohols, as toxic and carcinogen compounds are formed when mixed.

### **Conclusion**

Always use a chemical the way it is intended to be used. That is, check labels before using the chemical, wear suggested PPE for protection and dilute the chemical properly according to labels. Adhering to this guide shall always give the best outcome and keep staff safe.

### **References**

- Presept Solution preparation by AHS Laboratory Services
- Material Safety Data Sheet (MSDS) by Advanced sterilization products dated 5<sup>th</sup>/March 2009.

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