

ALDEHYDE MANAGEMENT SYSTEM

PROCEDURE FOR NEUTRALIZING ALDEHYDE SOLUTIONS

Only aldehyde solutions of 4% or less may be treated with Formalex GREEN.

This may be Formalin (3.7% Formaldehyde); 2, 3, or 4% Glutaraldehyde; or 4% Paraformaldehyde.

DO NOT TREAT

- Do Not Treat: any Aldehyde above 4% or any spent Aldehyde which might contain heavy metals.
 - Do Not Treat hot Aldehyde solutions.
 - Zinc Buffered Formalin cannot be neutralized in this manner - other treatment is required prior to neutralization.
 - Bouins Fixative cannot be neutralized in this manner - other treatment is required prior to neutralization
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- 1 gallon of Formalex GREEN neutralizes up to 4 gallons of Spent 10% buffered Formalin (3.7% Formaldehyde)
 - 1 gallon of Formalex GREEN neutralizes up to 9 gallons of spent 2% Glutaraldehyde.
 - 1 gallon of Formalex GREEN neutralizes up to 6 gallons of spent 3% Glutaraldehyde
 - 1 gallon of Formalex GREEN neutralizes up to 4 gallons of spent 4% Glutaraldehyde

To Neutralize Formaldehyde or Paraformaldehyde:

- Neutralize the Formalin or 4% Paraformaldehyde solution(s) with 1 part Formalex GREEN to 4 parts aldehyde. In a 4 liter container put 200ml of Formalex GREEN - pour 800ml of the aldehyde solution into the same container and invert 4 times to mix the solution, then let stand for a minimum of 4 Hours.
- After you have allowed the solution to sit for 4 Hours, you may then pour it down the drain with the water running. Allow the water to run for 3-5 minutes after you have finished pouring to prevent the drain from clogging.

To Neutralize Glutaraldehyde:

- **2% Glutaraldehyde** - A mixture ratio of 10% Formalex GREEN to 90% of the 2% Glutaraldehyde solution - or - add 100mL of Formalex GREEN for every 900mL of 2% Glutaraldehyde - mix and let stand 4 Hours - you may then pour it down the drain with running water - - let the water run for 3-5 minutes after pouring.
- **3% Glutaraldehyde** - A mixture ratio of 15% Formalex GREEN to 85% of the 3% Glutaraldehyde solution - or - add 150mL of Formalex GREEN for every 850mL of 3% Glutaraldehyde - mix and let stand 4 Hours -, then you may pour it down the drain with the water running - let the water run for 3-5 minutes after pouring
- **4% Glutaraldehyde** - A mixture ratio of 20% Formalex GREEN to 80% -of the 4% Glutaraldehyde solution - or - add 200mL of Formalex GREEN for every 800mL of Glutaraldehyde - mix and let stand 4 Hours - then you may pour it down the drain with the water running - let the water run for 3-5 minutes after pouring

NOTE: IF WASTE IS BEING TREATED WITH CLOROX AS WELL, PLEASE TREAT WITH FORMALEX GREEN FIRST, WAIT 12 HOURS BEFORE TREATING WITH CLOROX

The Chemical Safety Office provides Formalex GREEN for the neutralization of aldehydes.