



# Xeros

## Edema Factor

The Future Now: **Formaldehyde Free**

**CPF=8<sup>A</sup>**

**XEROS** is a special use/additive fluid of the **Millennium New Era** line of embalming formulations. **XEROS** is formaldehyde-free and exerts a maximum dehydration effect when used as directed. **XEROS** also induces an additional high level sanitation effect in addition to effective embalming of edema cases. Use only where a severe dehydration effect is desired. Not for normal embalming use.

### USE AS FOLLOWS:

LIGHT EDEMA	MODERATE EDEMA	SEVERE EDEMA	EXTREME EDEMA
1 Btl. Xeros 1/2 Btl. Trisan 1 Btl. Beta Factor 1/2 Btl. Specialist	2 Btls. Xeros 1/2 Btl. Trisan 1 Btl. Beta Factor 1 Btl. Specialist	3 Btls. Xeros 1/2 Btl. Trisan 2 Btls. Beta Factor 1 Btl. Specialist	4 Btls. Xeros 1 Btl. Trisan 2 Btls. Beta Factor 1 Btl. Specialist
Dilute to one gallon with warm water. Inject 4 gallons.	Dilute to one gallon with warm water. Inject 4 gallons.	Dilute to one gallon with warm water. Inject 4 gallons.	No dilution water. Inject 4 gallons.

### Notes:

A- A value assigned to all Champion fluids ranking them on the basis of preservative ability using recommended dilutions in normal cases. The Champion Preservative Factor is not index but can equal it in certain fluids. It is derived from the total chemical composition of each fluid and results of extensive field research. The Champion Preservative Factor can be used by the embalmer to predict the reactivity, preservative value and firming action of Champion fluids.

→ A non-lanolin arterial fluid (with  $CPF \geq 20$ ) may be used instead of Specialist. Use at twice normal dilution rate (e.g. Fax at 16 oz./gal.) for light to moderate edema and at 3-4 times normal dilution rate (e.g. Fax at 24-32 oz./gal.) for severe or extreme edema. Maximum effect will be achieved if Specialist is used at recommended amounts.

→ Aloe Factor may be substituted in part or in whole for Beta Factor with similar results.

→ **XEROS**, used sparingly, will yield valuable embalming results in very mild cases of edema, institutional cases, delayed embalming cases and difficult cases without profound edema. Even normal cases that exhibit slight bloating and localized tissue moisture will benefit from **XEROS**. Puffy eyelids, extended temple areas, mild swelling of the cheek and mouth areas and localized edema-like hand swelling will be drastically reduced with **XEROS** at 3-4 ounces per gallon added to the normal arterial solution. Skin tightening/toning will be achieved without wrinkling or harsh drying action. Increased amounts of **XEROS** may be used to increase the drying effect, if conditions warrant.

**BEFORE USING, READ MATERIAL SAFETY DATA SHEET.  
FOR PROFESSIONAL EMBALMING USE ONLY.**

# MATERIAL SAFETY DATA SHEET

HAZARD RATING	
Health	2
Fire	2
Reactivity	0
Special	0

THE CHAMPION COMPANY  
400 Harrison Street  
Springfield, Ohio 45505  
EMERGENCY TELEPHONE NO. (937) 324-5681  
CHEMTREC: (800) 424-9300 (Spill, Leak, Fire, Exposure or Accident)

## I. PRODUCT INFORMATION

General Type: Embalming Fluid  
Trade Name: XEROS

## II. HAZARDOUS INGREDIENTS

<u>MATERIAL (CAS)</u>	<u>%</u>	<u>OSHA PEL</u> <u>TWA/STEL (15)</u>	<u>ACGIH TLV</u> <u>TWA/STEL (15)</u>
Glutaraldehyde (111-30-0)	7	.2ppm (ceiling)	.05ppm (ceiling)

## III. PHYSICAL DATA

Boiling Point	205° F+	Freezing Point	N/D
Specific Gravity	> 1	Vapor Pressure	N/D
Vapor Density	Approx 1	Solubility in Water	N/D
Percent Volatiles	10 (with heat)	Evaporation Rate	< 1 (Butyl Acetate = 1)
Appearance and Odor	Pale blue liquid, faint odor.		

## IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point	> 190° F (TCC) Combustible Liquid
Flammable Limits In Air	Lower ----- Upper -----
Extinguishing Media	Foam, Dry Chemical, Carbon Dioxide, Water Spray
Special Fire Fighting Procedures	Wear self-contained breathing apparatus, cool container with water spray.
Unusual Fire and Explosion Hazard	-----

## V. HEALTH HAZARD DATA

Threshold Limit Value	See Part II
Effects of Overexposure	If swallowed may cause burns, nausea, vomiting, diarrhea, or death. Skin contact may cause burns, dermatitis or serious skin injury. Eye contact may cause burns, inflammation, eye injury or blindness. Inhalation may cause burning of throat and lungs, difficult breathing and collapse. Can be absorbed through skin.
Emergency and First Aid Procedures	Contact physician immediately. If swallowed do not induce vomiting, give milk or water and get medical attention. If unconscious - give nothing. If eye or skin contact - flush with water for 15 minutes. Remove contaminated clothing, get medical attention. If inhaled - remove to fresh air, give artificial respiration. If not breathing, get medical attention.

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## VI. REACTIVITY DATA

Stability	Product is stable
Conditions to Avoid	Sparks, heat and open flames
Incompatibilities	Strong acids and alkalis
Hazardous Decomposition Products	At high temperatures may release carbon monoxide or hydrogen chloride
Hazardous Polymerization	Will not occur

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## VII. SPILL OR LEAK PROCEDURES

If Material is Spilled	Neutralize with sodium sulfite solution and flush to sewer with large quantity of water - if allowed. Mop up with dry, non-reactive absorbent and dispose of as solid waste as allowed.
Waste Disposal Method	Flush to chemical sewer, incinerate, dispose in sanitary landfill - if allowed or flush to waste treatment system - if allowed.

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## VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection	Unnecessary if area is adequately ventilated - use organic vapor mask if necessary.
Local Ventilation	Preferred
Mechanical Ventilation	Acceptable if necessary
Special Ventilation	Not normally required
Other Ventilation	Not normally required
Protective Gloves	Impervious vinyl or rubber type
Eye Protection	Coverall goggles or full face shield
Other Protective Equipment	Safety shower, eye wash and full protective clothing is required.

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## IX. SPECIAL PRECAUTIONS

Maintain adequate ventilation and engineering controls to insure exposure levels below OSHA limits. Avoid prolonged inhalation or contact with skin or eyes.

Keep bottles tightly capped. Keep away from heat and flames. Store in cool, dry, well-ventilated area.

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The information herein given is in good faith but no warranty, expressed or implied, is made, except that to the best of the Company's knowledge it is accurate. The Champion Company does not assume any legal responsibilities for use or dependence upon same. Customers may wish to conduct tests of their own. The user is urged to read the information provided on the label before using product.

XEROS

Date July 2004

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