

Millenium

new era

Arterial 24

Alpha α Factor

The Future Now: **Formaldehyde Free**

CPF=24^A

Arterial 24 Alpha Factor is a formaldehyde-free arterial embalming fluid of the Millenium New Era line of embalming formulations. Arterial 24 Alpha Factor is a high reactivity multi-aldehyde based formulation that exhibits a high level of penetration and saturation of tissues with significantly improved embalming results. Arterial 24 Alpha Factor is for all normal cases and can be used for difficult or extreme cases if dilutions are increased accordingly and appropriate accessory chemicals are used. Arterial 24 Alpha Factor requires that Arterial 24 Beta Factor be used ounce-for-ounce in equal amounts in order for activation and buffering to occur. Arterial 24 Alpha Factor should never be used without Arterial 24 Beta Factor as the reaction with tissue will be rapid and uncontrolled. Do not use dilutions over the table values unless conditions warrant (decomposition, disease, etc.). Expect moderate to definite firmness with rubbery flexibility. Rock hard firmness will not occur due to lack of formaldehyde dehydration effect. Always add dye to achieve uniform cosmetic effect and to trace distribution. Do not inject more than 2½ - 3 gallons of total solution unless conditions warrant (large bodies, etc.). Use of higher concentrations of chemical or excessive gallons of injection will result in significant overembalming and slight darkening of the tissues (which can be overcome with the use of an appropriate amount of dye).

PH-A ¹	ARTERIAL 24 ALPHA FACTOR ^B		ARTERIAL ²⁴ BETA FACTOR	HUMECTANT ALOE FACTOR ³	TRISAN POWER FACTOR ⁴ ADD FOR EXTRA FIRMNESS	HUMECTANT ALOE FACTOR ⁵ ADD TO RESTORE MOISTURE CONTENTS
	MODERATE FIRMNESS	DEFINITE FIRMNESS				
3-4	8-9	10-11	EQUAL AMOUNT TO ALPHA FACTOR	2-4	1-2	4-8
<div style="display: flex; justify-content: space-around; align-items: center;"> → → MIX IN THIS ORDER → → </div>						

Read all label warnings and precautions prior to use. Always wear protective clothing and good quality gloves while using Arterial 24 Alpha Factor. Always use adequate ventilation and avoid contact with eyes, skin or clothing. Arterial 24 Alpha Factor is not designed for use as an external pack or hypo injection into areas of the body that are to be cosmetized or viewed. Used full strength, Arterial 24 Alpha Factor will cause some staining and darkening of tissues. Always shake thoroughly before use - some separation is possible due to the high level of active ingredients present in the concentrated chemical. Use caution when using plastic tank machines — clouding may possibly occur. Rinse machines after use and do not allow chemical to stand in machines for long periods of time.

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.
- B - Add dye concentrate cosmetic factor at rate of ½ oz. or as needed.
 - 1 - For proper water conditioning and pH balance to maximize fluid efficiency (if using soft water - reduce amount to 2-3 ozs.)
 - 2 - These are recommended amounts for normal cases. Additional amounts of fluid will be needed for cases with higher aldehyde demand such as cancer, renal and liver diseases with their complications, institutional cases and other wasting diseases, delayed embalming cases, edema and bodies subjected to extensive drug therapy.
 - 3 - Humectant to control aldehyde action and prevent dehydration during embalming. Do not use in cases of moisture retention (edema, etc.).
 - 4 - For increased aldehyde action of fluid with improved rigidity and preservation. (Increases preservation factor of fluid without inducing dehydration or other unwanted effects.)
 - 5 - For maximum rehydration of tissues. Restores moisture in cases of dehydration or emaciation. Use in last 1 to 1½ gallons of solution with intermittent or restricted drainage

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

MATERIAL SAFETY DATA SHEET

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)

HAZARD RATING
Health 2
Fire 2
Reactivity 0
Special 0

I. PRODUCT INFORMATION

General Type: Arterial Embalming Fluid
Trade Name: Arterial 24 Alpha Factor

II. HAZARDOUS INGREDIENTS

<u>MATERIAL (CAS)</u>	<u>%</u>	<u>OSHA PEL TWA/STEL (15)</u>	<u>ACGIH TLV TWA/STEL (15)</u>
Glutaraldehyde (111-30-0)	7	.2ppm (ceiling)	.05ppm (ceiling)
Phenol (108-95-2)	5	5ppm/NONE	5ppm/NONE
Cresol (1319-77-3)	1	5ppm/NONE	5ppm/NONE
Methanol (67-56-1)	10	200ppm/NONE	200ppm/250ppm
Isopropanol (67-63-0)	10	400ppm/NONE	200ppm/400ppm
Ethylene Glycol (107-21-1)	2	50ppm (ceiling)	100mg/m ³ (ceiling)

III. PHYSICAL DATA

Boiling Point	150° F+	Freezing Point	N/D
Specific Gravity	1.0	Vapor Pressure	N/D
Vapor Density	Approx 1	Solubility in Water	COMPLETE
Percent Volatiles	20 (with heat)	Evaporation Rate	Approx 1 (Butyl Acetate = 1)
Appearance and Odor	Reddish liquid with slight pungent odor.		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point	100° F (TCC) Combustible Liquid
Flammable Limits In Air	---- ----
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, blindness 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, liver damage, nerve damage or blindness. Can be absorbed through skin.
Emergency and First Aid Procedures	Contact physician immediately. If swallowed give milk or water and induce vomiting by sticking finger down throat 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.

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 carbon dioxide
Hazardous Polymerization	Will not occur

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.

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.

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.

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.

Arterial 24 Alpha Factor

Date July 2004
