



## **HUMITONE** **with Entrone**

Champion HUMITONE is a modifying and humectant solution containing ingredients such as glycerine and glycerine-like compounds blended with vegetable gums and Entrone.

It aids in controlling the drying action of formaldehyde, yet it does not affect the preservative qualities of formaldehyde.

HUMITONE is excellent for use in filling out emaciated tissue areas to the proper contour. The molecular size of the basic ingredient is such that the moisture-holding gums are retained in the tissues.

Use HUMITONE to counteract the various causes of dehydration in embalming:

Air currents, drafts of air conditioning, fans, hot air (summer), heated air of winter, dry air with low humidity;

Nature of the illness preceding death, such as high fever;

Use of astringent cavity chemicals topically and internally.

### **DIRECTIONS**

To prevent dehydration during embalming - add 1-3 oz. of HUMITONE per gallon when non-lanolin arterial fluid is used. To restore moisture content to tissues - add 4-12 oz. of HUMITONE per gallon in last 1-1½ gallons injected. Always use intermittent or restricted drainage and delay aspiration if possible.

For maximum results, add one full bottle of HUMITONE to the last gallon of solution injected. While the last half-gallon is being injected, ligate the vein and continue to inject the remaining solution. This technique will aid in retaining HUMITONE in the tissues.

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

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : HUMITONE

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Accessory Embalming Fluid

Use of the substance/mixture : For professional use only

**1.3. Details of the supplier of the safety data sheet**THE CHAMPION COMPANY  
400 Harrison Street  
Springfield, Ohio 45505

Telephone No. (937) 324-5681

**1.4. Emergency telephone number**

INFOTRAC: 1-800-535-5053 DOMESTIC or 352-323-3500 INTERNATIONAL

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GHS-US classification**

Resp. Sens. 1 H334

**2.2. Label elements****GHS-US labelling**

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (GHS-US) :

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust, fume, mist, spray, vapors  
P285 - In case of inadequate ventilation wear respiratory protection  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P342+P311 - If experiencing respiratory symptoms: Call a doctor  
P501 - Dispose of contents and container to comply with applicable local, state, national and international regulation.**2.3. Other hazards**

other hazards which do not result in classification

: Spills of this product present a serious slipping hazard.

**2.4. Unknown acute toxicity (GHS-US)**

No data available

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

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### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Methyl alcohol	(CAS No) 67-56-1	<2.5	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapor), H331 STOT SE 1, H370
Boric acid, disodium salt, pentahydrate	(CAS No) 12179-04-3	<1	Repr. 1B, H360
Glutaraldehyde	(CAS No) 111-30-8	0.3	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention. If not breathing, give artificial respiration. Call a doctor.
- First-aid measures after skin contact : Flush with large amounts of water. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.
- First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to a person who is not fully conscious. Obtain emergency medical attention. Call a POISON CENTER. Give water to drink if victim completely conscious and alert.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Symptoms/injuries after skin contact : Prolonged or repeated contact with the skin may cause dermatitis.
- Symptoms/injuries after eye contact : Causes serious eye irritation. symptoms may include stinging, tearing, redness, swelling and blurred vision.
- Symptoms/injuries after ingestion : May cause nausea, vomiting and diarrhea . Can cause blindness. Death in extreme cases.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

- Firefighting instructions : Approach from upwind. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Cool closed containers exposed to fire with water spray. Use water spray or fog for cooling exposed containers.
- Protective equipment for firefighters : Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Material spilled on hard surface can present a serious slipping and falling hazard. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid breathing dust, fume, mist, spray, vapors. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities. Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain and/or absorb spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Collect all waste in suitable and labelled containers and dispose according to local legislation. Store away from other materials. Eliminate all sources of ignition, avoid sparks, flames and do not smoke in risk area. Ensure all national and local regulations are observed. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin, eyes and clothes. Work in a well-ventilated area. When not in use, keep containers tightly closed. Empty container retains product residue. Handle uncleaned empty containers as full ones. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. A washing facility for eye and skin cleaning purposes should be present.

Storage conditions : Keep out of reach of children. Keep only in the original container in a cool, well-ventilated place away from highly flammable substances. Keep container tightly closed and dry. Store away from direct sunlight or other heat sources. Keep container tightly closed.

Incompatible materials : Strong acids, bases. Oxidizing agents.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Glutaraldehyde (111-30-8)		
USA ACGIH	ACGIH Ceiling (ppm)	0.05 ppm (activated and inactivated)
Boric acid, disodium salt, pentahydrate (12179-04-3)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Methyl alcohol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm

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Methyl alcohol (67-56-1)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

### 8.2. Exposure controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure. Wear protective clothing, protective gloves, eye protection/goggles, face protection. For certain operations, additional Personal Protection Equipment (PPE) may be required.
Hand protection	: Wear impermeable protective nitrile gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Contact lenses should not be worn. Chemical goggles and face shields are required to prevent potential eye contact, irritation or injury.
Skin and body protection	: Long sleeved protective clothing. Overall. Rubber apron, boots. safety foot-wear.
Respiratory protection	: In case of insufficient ventilation. Wear suitable respiratory equipment. Approved organic vapor respirator.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Pink
Odor	: Pleasant odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: -1.11 °C (30 °F)
Boiling point	: 94.44 °C (202 °F)
Flash point	: 97.77 °C (208 °F) (COC)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: 1
Relative density	: No data available
Density	: 1.01 Specific Gravity
Solubility	: Water: 97 %
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: Negligible.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable at normal conditions.

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### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Sparks.

### 10.5. Incompatible materials

Oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

On thermal combustion form: Nitrogen oxides (NOx). Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Glutaraldehyde (111-30-8)	
LD50 oral rat	252 mg/kg
LD50 dermal rabbit	560 µl/kg
LC50 inhalation rat (mg/l)	0.1 mg/l/4h
ATE US (oral)	252.00000000 mg/kg bodyweight
ATE US (vapors)	0.10000000 mg/l/4h
ATE US (dust,mist)	0.10000000 mg/l/4h

Boric acid, disodium salt, pentahydrate (12179-04-3)	
LD50 oral rat	2403 mg/kg
ATE US (oral)	2403.00000000 mg/kg bodyweight

Methyl alcohol (67-56-1)	
LC50 inhalation rat (mg/l)	130.7 mg/l/4h (lit. ECHA)
ATE US (oral)	100.00000000 mg/kg bodyweight
ATE US (dermal)	300.00000000 mg/kg bodyweight
ATE US (vapors)	3.00000000 mg/l/4h

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met.
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: Causes serious eye irritation. symptoms may include stinging, tearing, redness, swelling and blurred vision.
Symptoms/injuries after ingestion	: May cause nausea, vomiting and diarrhea . Can cause blindness. Death in extreme cases.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Glutaraldehyde (111-30-8)</b>	
LC50 fishes 1	7.8 - 22 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	2.6 - 4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	0.56 - 1.0 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

  

<b>Methyl alcohol (67-56-1)</b>	
LC50 fishes 1	> 12700 mg/l 96 hours
EC50 Daphnia 1	> 10000 mg/l

#### 12.2. Persistence and degradability

<b>HUMITONE</b>	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

<b>HUMITONE</b>	
Bioaccumulative potential	Not established.

  

<b>Glutaraldehyde (111-30-8)</b>	
Log Pow	0.22 (at 25 °C)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No additional information available
Other information	: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations	: Incinerate, dispose in sanitary landfill - if permitted. Consult the appropriate authorities about waste disposal. Dispose in a safe manner in accordance with local and national regulations. Dispose of contents and container to comply with applicable local, state, national and international regulation
Additional information	: Do not re-use empty containers. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.
Ecology - waste materials	: Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

#### Additional information

Other information	: No supplementary information available.
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#### Transport by sea

Not regulated for transport

#### Air transport

Not regulated for transport

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>Methyl alcohol (67-56-1)</b>	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb
SARA Section 313 - Emission Reporting	1.0 %

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### 15.2. International regulations

#### CANADA

Glutaraldehyde (111-30-8)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

No additional information available

Methyl alcohol (67-56-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
	Yes			

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 4	Flammable liquids Category 4
Repr. 1B	Reproductive toxicity Category 1B
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H331	Toxic if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H370	Causes damage to organs



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### HMIS III Rating

Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

SDS US (GHS HazCom 2012)

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