

## Section 1 – Chemical Product and Company Identification

**MSDS Name:** HyStem™

**Catalog Numbers:** N/A

**Synonyms:** Carboxymethyl Hyaluronic Acid – DTPH

**Company Identification:**

Glycosan BioSystems  
675 Arapeen Drive Suite 301  
Salt Lake City, UT 84108

**For information, call:** 801-583-8212

## Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
N/A	Carboxymethyl Hyaluronic Acid – DTPH	100%	unlisted

**Hazard Symbols:** None listed.

**Risk Phrases:** None listed.

## Section 3 – Hazards Identification

### EMERGENCY OVERVIEW

**Appearance:** White solid. The toxicological properties of this material have not been fully investigated. Caution! Avoid contact and inhalation.

**Target Organs:** None known.

### HMIS Rating

Health: 1  
Flammability: 0  
Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 – First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician.

**Skin:** Wash skin with copious amounts of water.

**Ingestion:** If victim is conscious and alert, wash out mouth with water. Never give anything by mouth to an unconscious person. Call a physician.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

**Notes to Physician:** Treat symptomatically and supportively.

### Section 5 – Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use agent most appropriate to extinguish fire. Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Flammability:** Non-flammable

### Section 6 – Accidental Release Measures

**General Information:** Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 – Handling and Storage

**Handling:** Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

**Storage:** Store at -80°C. Store in a tightly closed container.

### Section 8 – Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low. Safety shower and eye bath.

**Exposure Limits:** None listed.

**OSHA Vacated PELs:** None listed for this chemical.

#### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respiratory:** Wear dust mask to avoid inhalation.

**General Hygiene Measures:** Wash thoroughly after handling.

### Section 9 – Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** White

**Odor:** N/A

**pH:** N/A  
**Vapor pressure:** N/A  
**Vapor density:** N/A  
**Evaporation Rate:** N/A  
**Viscosity:** N/A  
**Boiling Point:** N/A  
**Freezing/Melting Point:** N/A  
**Decomposition Temperature:** N/A  
**Solubility:** Soluble in water  
**Specific Gravity/Density:** N/A  
**Molecular Formula:** N/A  
**Molecular Weight:** N/A

N/A = not available

## Section 10 – Stability and Reactivity

**Chemical Stability:** Stable  
**Conditions to Avoid:** Strong oxidizing agents.  
**Incompatibilities with Other Materials:**  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.  
**Hazardous Polymerization:** Has not been reported.

## Section 11 – Toxicological Information

### Routes of Exposure

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

### Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been fully investigated.

### Toxicity Data

No data available

## Section 12 – Ecological Information

No information available

## Section 13 – Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## Section 14 – Transport Information

Non-hazardous for transport.

## Section 15 – Regulatory Information

### **General Information**

For research and development use only. Not for drug, household, or other uses.

### **European/International Regulations**

**Safety Phrases:** S: 22 24/25

Do not breathe dust. Avoid contact with skin and eyes.

### **US Label Text**

US Statement: Caution: Avoid contact and inhalation.

### **United States Regulatory Information**

SARA Listed: No

### **Canada Regulatory Information**

N/A

## Section 16 – Additional Information

**MSDS Creation Date:** 3/1/06

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