Material Safety Data Sheet

GELATIN, 5% pH 4.0

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Gelatin, 5% pH 4.0  
**Catalog Numbers:** A-111-5, A-118-4, SO-1128

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883  
**Emergency Number:** 800-424-9300  
**For CHEMTREC assistance, call:** 800-424-9300

Section 2 - Hazards Identification

**GHS Classifications**

**HEALTH HAZARDS**

H302 Acute Oral Toxicity: 4  
H315 Skin Corrosion/ Skin irritation: 2  
H320 Eye damage/ Irritation: 2B  
H373 Specific Target Organ Toxicity: 2

**PHYSICAL HAZARDS**

Not Classified

**ENVIRONMENTAL HAZARDS**

Aquatic acute environmental hazards: Not Classified  
Chronic environmental hazards: Not Classified

Pictograms or Hazard symbols and Hazard statement

⚠️  
Warning! Harmful if swallowed
Warning! Causes mild skin irritation

Warning! May cause damage to organs.

H302
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P301 + P312 If swallowed, call a physician if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

H315
P332 + P313 If skin irritation occurs, get medical advice/attention
P362 Take off contaminated clothing and wash before reuse.

H320
P264 Wash thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

H373
P260 Do not breathe fume/gas/mist/vapors.
P314 Get medical advice/attention if you feel unwell.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
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<tbody>
<tr>
<td>9000-70-8</td>
<td>Gelatin</td>
<td>5 w/v</td>
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<tr>
<td>77-92-9</td>
<td>Citric Acid</td>
<td>0.03 v/v</td>
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<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>100 v/v</td>
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Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical advice.

**Oral Exposure:** If swallowed seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.  

**Special Remarks on Fire hazards:** Contact with combustible or organic materials

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A  
**Auto ignition Temperature:** N/A  
**Explosion Limits:** N/A  
**Upper:** N/A

Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**
Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Avoid contact with skin, eyes and clothing. Store at 4 degree C.

Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**
Mechanical exhaust
**Personal Protective Equipment:**
Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

**Section 9 - Physical and Chemical Properties**

**Physical State:** solid (gelatin)
**Appearance:** clear
**pH:** 4.0
**water**
**Vapor Pressure:** 2.3 kPa @ 20deg. C
**Vapor Density:** 0.62 (Air=1)
**Evaporation Rate:** N/A
**Viscosity:** N/A
**Boiling Point:** 100 deg. C

**Section 10 - Stability and Reactivity**

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.
**Hazardous Decomposition Products:** Metal Oxide fume and nitrogen oxides.
**Hazardous Polymerization:** Will not occur.
**Incompatibilities with other material:** Reducing agents, easily oxidized materials, organic materials and metal powders.

**Section 11 - Toxicological Information**

**RTECS#:**
CAS#: 900-70-8
LD50: Not available. LC50: Not available

CAS#: 77-92-9
Acute toxicity LD50 Oral - rat - 5,400 mg/kg (OECD Test Guideline 401) Inhalation: no data available LD50 Dermal - rat - > 2,000 mg/kg

**Carcinogenicity:**
CAS# 900-70-8 & 77-92-9 : Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Route of exposure:**
Multiple routes: May cause irritation. May be harmful by inhalation, ingestion, or skin absorption.

**Conditions aggravated by exposure:**
The toxicological properties have not been thoroughly investigated.
Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**
Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

**DOT**
Non-Regulated

Section 15 - Regulatory Information

**US Classification and label test**
US Statements: Caution: Irritant, to skin and eyes.

**United States Regulatory Information**
SARA Listed: No

**Canada Regulatory Information**
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: no
NDSL: no

**Risk Phrases:**
- R20/21/22 Harmful in contact with skin and if swallowed
- R36/37/38 Irritating to eyes, respiratory system and skin
- R48/21/22 Harmful: danger of serious damage to health by prolonged exposure in contact with skin or if swallowed.

**Safety Phrases:**
- S26/28 In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice
- S36 Wear suitable protective clothing
- S14 Keep away from reducing agents, easily oxidized materials, organic materials and metal powders.
MSDS Creation Date: January 22, 2004
Revision # 7/18/14 YM
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