SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifiers
   - Product Name: Methacrylated Type I Collagen Kit
   - Catalog No: 5201, 5270, 5271, 5198
   - Brand Name: PhotoCol®
   - CAS No.: 9007-34-5

2. Relevant identified uses of the substance or mixture and uses advised against
   - Identified Uses: Laboratory chemicals, Manufacturer of substances

3. Details of the supplier of the safety data sheet
   - Company: Advanced BioMatrix, Inc.
   - Address: 5930 Sea Lion Place, Carlsbad, CA 92010 USA
   - Phone: 1-800-883-8220, 1-760-929-0755 outside USA
   - Fax: 1-510-217-3452

4. Emergency telephone number
   - Emergency Phone No.: 1-800-883-8220

SECTION 2 – HAZARDS IDENTIFICATION

1. Classification of the substance or mixture
   - Not a hazardous substance or mixture.

2. GHS Label elements, including precautionary statements
   - Not a hazardous substance or mixture.

3. Hazards not otherwise classified (HNOC) or not covered by GHS – None

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

1. Substances
   - Methacrylated Collagen
     - CAS No.: 9007-34-5
     - EC No.: 232-697-4
   - Acetic Acid
     - CAS No.: 64-19-7
Phosphate Buffer Saline (PBS)

CAS No. N/A

Irgacure 5929 (2-Hydroxy-4′-(2-hydroxyethoxy)-2-methylpropiophenone)

CAS No. 106797-53-9

No components need to be disclosed according to the applicable regulations.

**SECTION 4 – FIRST AID MEASURES**

1. **Eye Contact**
   - Flush eyes with water as a precaution.

2. **Skin Contact**
   - Wash off with soap and plenty of water.

3. **Inhalation**
   - If breathed in, move person into fresh air. If not breathing, give artificial respiration.

4. **Ingestion**
   - Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. **Most important symptoms and effects, both acute and delayed**
   - The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

6. **Indication of any immediate medical attention and special treatment needed**
   - No data available

**SECTION 5 – FIREFIGHTING MEASURES**

1. **Extinguishing media**
   - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

2. **Special hazards arising from the substance or mixture**
   - Nature of decomposition of products not known.

3. **Advice for firefighters**
   - Wear self-contained breathing apparatus for firefight if necessary.

4. **Further Information**
   - No data available

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

1. **Personal precautions, protective equipment and emergency procedures**
   - Avoid dust formation.
   - Avoid breath vapors, mist or gas.
   - For personal protection see section 8.

2. **Environmental precautions**
   - Do not let product enter drains.
3. **Methods and materials for containment and cleaning up**  
   Sweep up and shovel. Keep in suitable, closed containers for disposal.

4. **Reference to other sections**  
   For disposal see section 13.

### SECTION 7 – HANDLING AND STORAGE

1. **Precautions for safe handling**  
   Provide appropriate exhaust ventilation at place where dust is formed. For precaution see section 2.2

2. **Conditions for safe storage, including any incompatibilities**  
   Keep container tightly closed in a dry and well-ventilated place. Handle material under Biosafety Level 1 (BSL-1) containment.
   Storage class (TRGS 510): Non Combustible
   Recommended storage conditions 2 to 10°C
   Heat sensitive.

3. **Specific end use(s)**  
   Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

1. **Workplace control parameters**  
   The product does not contain any substances with occupational exposure limit values.

2. **Exposure controls**  
   **Appropriate engineering controls**  
   General industrial hygiene practice.
   **Personal protective equipment**  
   **Eye/Face protection**  
   Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

   **Skin protection**  
   Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of the contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

   **Body protection**  
   Choose body protection in relations to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and the amount of the dangerous substance at the specific work place.
**Respiratory protection**

Respiratory protection is not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
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</tr>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Odor threshold</td>
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</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
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</tr>
<tr>
<td>Flash point</td>
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</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability</td>
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</tr>
<tr>
<td>Vapor pressure</td>
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</tr>
<tr>
<td>Vapor density</td>
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</tr>
<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
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</tr>
<tr>
<td>Auto-ignition temperature</td>
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</tr>
<tr>
<td>Decomposition temperature</td>
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</tr>
<tr>
<td>Viscosity</td>
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</tr>
<tr>
<td>Explosive properties</td>
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</tr>
<tr>
<td>Oxidizing properties</td>
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</tbody>
</table>

### SECTION 10 – STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
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<tr>
<td>Chemical stability</td>
<td>Stable under recommend storage conditions</td>
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<tr>
<td>Possibility of hazardous reactions</td>
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<tr>
<td>Conditions to avoid</td>
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<tr>
<td>Incompatible material</td>
<td>Strong oxidizing agents</td>
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<tr>
<td>Hazardous decomposition products</td>
<td>Hazardous decomposition products formed under fire conditions. - Nature of</td>
</tr>
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</table>
**In the event of fire: see section 5.**

**SECTION 11 – TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
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</thead>
<tbody>
<tr>
<td>Inhalation</td>
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<tr>
<td>Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
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</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
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<tr>
<td>Respiratory or skin sensitization</td>
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</tr>
<tr>
<td>Germ cell mutagenicity</td>
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</tr>
<tr>
<td>Carcinogenicity</td>
<td>Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)</td>
</tr>
<tr>
<td></td>
<td>NTP: No components of this product present at levels greater than or equal to 0.1% is identified as known or anticipate carcinogen by NTP.</td>
</tr>
<tr>
<td></td>
<td>OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
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<tr>
<td>Specific target organ toxicity</td>
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<td>Single exposure</td>
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<td>Repeated exposure</td>
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<tr>
<td>Aspiration hazard</td>
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<tr>
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<tr>
<td>RTECS</td>
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</tr>
</tbody>
</table>

**To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.**

**SECTION 12 – ECOLOGICAL INFORMATION**

| Toxicity                  | No data available |
|                         | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil         | No data available |
Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effect
No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14 – TRANSPORT INFORMATION

DOT (US) Not dangerous goods
IMDG Not dangerous goods
IATA Not dangerous goods

SECTION 15 – REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
Collagen CAS No. 9007-34-5

Pennsylvania Right To Know Components
Water CAS No. 7732-18-5
Collagen CAS No. 9007-34-5

New Jersey Right To Know Components
Water CAS No. 7732-18-5
Collagen CAS No. 9007-34-5

California Prop. 65 Components
This product does not contain any chemicals known to the State of
California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS Rating
- Health hazard: 0
- Chronic Health Hazard: 0
- Flammability: 0
- Physical Hazard: 0

NFPA Rating
- Health hazard: 0
- Fire Hazard: 0
- Reactivity Hazard: 0

Further information:
This information has been prepared by Advanced BioMatrix, Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advanced BioMatrix, Inc. and its Affiliates shall not be held liable for any damages resulting from handling or from contact with the above product. See www.advancedbiomatrix.com for additional terms and conditions of sale.

Preparation Information:
Advanced BioMatrix, Inc.
1-800-883-8220