



## Safety Data Sheet

Revision: 01

Date: January 9, 2018

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

#### 1. Product Identifiers

|              |                                       |
|--------------|---------------------------------------|
| Product Name | PhotoHA® Hyaluronic Acid Methacrylate |
| Catalog No   | 5275                                  |
| Brand Name   | Hyaluronate, Sodium                   |
| CAS No.      | 9067-32-7                             |

#### 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.<br>5930 Sea Lion Place<br>Carlsbad, CA 92010 USA<br>Phone: 1-800-883-8220<br>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

#### Substances

Methacrylated HA

|         |           |
|---------|-----------|
| CAS No. | 9067-32-7 |
|---------|-----------|

Ruthenium -

|                                                                         |            |
|-------------------------------------------------------------------------|------------|
| Pentamethylcyclopentadienylbis(triphenylphosphine)ruthenium(II)chloride |            |
| CAS No.                                                                 | 92361-49-4 |

No ingredients hazardous according to OSHA criteria.

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.

**1. Environmental precautions**

Do not let product enter drains.

**2. Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**3. 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.

Recommended storage temperature: 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.

##### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

##### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **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.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

### Appearance

Form  
Color

Solid  
White

Odor

No data available

Odor threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

No data available

Evaporation rate

No data available

Flammability

No data available

Upper/lower flammability

No data available

Vapor pressure

No data available

Vapor density

No data available

Relative density

No data available

Water solubility

ca. 5 g/l

Partition coefficient: n- octanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

## SECTION 10 – STABILITY AND REACTIVITY

|                                    |                                                                                                              |
|------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Reactivity                         | No data available                                                                                            |
| Chemical stability                 | Stable under recommend storage conditions                                                                    |
| Possibility of hazardous reactions | No data available                                                                                            |
| Conditions to avoid                | No data available                                                                                            |
| Incompatible material              | Strong oxidizing agents                                                                                      |
| Hazardous decomposition products   | Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. |

\*\*In the event of fire: see section 5.\*\*

## SECTION 11 – TOXICOLOGICAL INFORMATION

|                                   |                                                                                                                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                    | LD50 Oral - rat - > 800 mg/kg<br>Remarks: Nutritional and Gross<br>Metabolic: Changes in: Other changes.<br>TDLo Oral - rat - 2,275 mg/kg<br>Remarks: Nutritional and Gross<br>Metabolic: Weight loss or decreased<br>weight gain. |
| Intraperitoneal                   | Kidney, Ureter, Bladder: Other<br>changes in urine composition. Blood:<br>Changes in leukocyte (WBC) count.<br>Blood: Normocytic anemia.                                                                                           |
| Inhalation                        | No data available                                                                                                                                                                                                                  |
| Dermal                            | No data available                                                                                                                                                                                                                  |
| Skin corrosion/irritation         | No data available                                                                                                                                                                                                                  |
| Serious eye damage/eye irritation | No data available                                                                                                                                                                                                                  |
| Respiratory or skin sensitization | No data available                                                                                                                                                                                                                  |
| Germ cell mutagenicity            | No data available                                                                                                                                                                                                                  |
| Carcinogenicity                   |                                                                                                                                                                                                                                    |
| IARC                              | No components of this product<br>present at levels greater than or equal<br>to 0.1% is identified as known or<br>anticipate carcinogen by IARC.                                                                                    |

|                                |                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 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.        |
| 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. |
| Reproductive toxicity          | No data available                                                                                                                            |
| Specific target organ toxicity |                                                                                                                                              |
| Single exposure                | No data available                                                                                                                            |
| Repeated exposure              | No data available                                                                                                                            |
| Aspiration hazard              | No data available                                                                                                                            |
| Additional information         |                                                                                                                                              |
| RTECS                          | MT7250000                                                                                                                                    |

\*\*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                                                                           |
| 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                                                                           |

## SECTION13 – 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 | No components are subject to the Massachusetts Right to Know Act.                                                                                                                 |
| Pennsylvania Right To Know Components  |                                                                                                                                                                                   |
| Healon                                 | CAS No. 9067-32-7                                                                                                                                                                 |
| New Jersey Right To Know Components    |                                                                                                                                                                                   |
| Healon                                 | CAS No. 9067-32-7                                                                                                                                                                 |
| 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](http://www.advancedbiomatrix.com) for additional terms and conditions of sale.

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