Safety Data Sheet

Revision: 01
Date: March 20, 2017

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1. **Product Identifiers**

Product Name	Poly-D-Lysine, Solution
Catalog No	5049
Brand Name	Poly-D-Lysine hydrobromide
CAS No.	27964-99-4

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. 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**
   Synonyms : PDL
   CAS-No. : 27964-99-4
   No ingredients are 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 plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician.
2. **Skin Contact**
   Wash skin with copious amounts of water.
3. **Inhalation**
   Remove from exposure and move to fresh air immediately. 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 labeling (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**
   Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas
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 places 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.
   Keep in a dry place.
   Recommended storage temperature 2 to 8°C.
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**
   Contains no 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
   No special environmental precautions required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
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	No data available
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	No data available
Hazardous decomposition products	No data available

In the event of fire: see section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
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 component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component 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	No data available

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	
Poly-D-Lysine hydrobromide	CAS No. 27964-99-4
New Jersey Right to Know Components	
Poly-D-Lysine hydrobromide	CAS No. 27964-99-4
California Prop. 65 Components	This product does not contain any chemicals known to 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