

7040 Virginia Manor Road Beltsville, MD 20705, USA Web: www.abpbio.com

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Material Safety Data Sheet

Section 1. Identification of the Substance/Mixture

Product name: Polyethylenimine (PEI)

Manufacturer/Supplier identification

ABP Biosciences

7040 Virginia Manor Road, Beltsville, MD 20705, USA

Web: www.abpbio.com Tel: 301-658-7993 Email: info@abpbio.com

For research use only. Not for use in diagnosis procedures

Section 2. Hazards Identification

GHS Classification

Signal Word: None Hazard pictograms: None

Health hazards: Not hazardous Physical hazards: Not hazardous **Environmental hazards:** Not hazardous **Hazard Statements:** Not Applicable Prevention: Not Applicable Not Applicable Response: Disposal: Not Applicable Other hazards: Not Applicable

HMIS

Health	0
Flammability	0
Reactivity	0

Section 3. Composition/Information on Ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
PEI	49553-93-7	-	60-100

Section 4. First Aid Measures

Description of first aid measures

Skin contact Rinse skin with water. Immediate medical attention is not

required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion Not expected to present a significant ingestion hazard under

anticipated conditions of normal use. If you feel unwell, seek

medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated

conditions of normal use of this material. Consult a physician if

necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Not Applicable

Indication of any immediate medical attention and special treatment needed

None.

Section 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

No information available.

Special hazards arising from the substance or mixture

Not known

Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

Section 7. Handling and Storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

For research use only.

Section 8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits Contains no substances with occupational exposure limit values.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective Equipment

Respiratory protection In case of insufficient ventilation wear respirators and

components tested and approved under appropriate government

standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-

resistant gloves.

Eye protection Tight sealing safety goggles.

Skin and Body Protection Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

practice

Environmental exposure controls

No special environmental precautions required.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance solid Odor No data **Odor Threshold** No data **Molecular Weight** No data Melting point / melting range °C No data Boiling point / boiling range °C No data Flash point °C No data Autoignition Temperature °C No data °C No data **Decomposition temperature Evaporation rate** No data Flammability (solid, gas) No data No data Upper explosion limit Lower explosion limit No data

Vapor PressureNo dataVapor densityNo dataRelative densityNo dataSpecific gravityNo dataSolubilityNo data

Partition coefficient:

n-octanol/waterNo dataViscosityNo dataExplosive propertiesNo dataOxidizing propertiesNo dataOther informationNo data

Section 10. Stability and Reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid No information available.

Incompatible materialsNo dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available

Section 11. Toxicological information

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure

Acute toxicity

Data are conclusive but insufficient for classification.

Skin corrosion/irritation

Data are conclusive but insufficient for classification

Serious eye damage/irritation

Data are conclusive but insufficient for classification

Respiratory or skin
sensitization

Data are conclusive but insufficient for classification

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification (STOT)—singleexposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT)–repeated exposure

CarcinogenicityData are conclusive but insufficient for classificationGerm cell mutagenicityData are conclusive but insufficient for classificationReproductive toxicityData are conclusive but insufficient for classification

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Section 12. Ecological Information

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil No information available. Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available

Section 13. Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14. Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number Not Applicable

UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable.

Section 15. Regulatory Information

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

National Regulations - Brazil

Not regulated

Section 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Material Safety Data Sheet