



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Performa® DTR Gel Filtration Cartridges

Chemical characterization Aqueous gel particle suspension of cross-linked dextran polymer

Supplier Edge BioSystems
2032 Concourse Drive
San Jose, CA 95131
Tel: 1-800-326-2685
www.edgebio.com

Emergency telephone number 1.800.326.2685

Product use Molecular Sieving

Canadian PIN N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous components | Name | CAS Number | EC Number | Weight % |
|----------------------|------|------------|-----------|----------|
| | N/A | N/A | N/A | N/A |

| Other components | Name | CAS Number | EC Number | Weight % |
|------------------|----------------------|------------|-----------|----------|
| | Cross-linked dextran | 9048-71-9 | N/A | N/A |
| | Water | 7732-18-5 | | |

See Section 15 of this MSDS for OSHA Regulatory Status

3. HAZARDS IDENTIFICATION

| | |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency overview | Particle suspension in water. Contact with suspension may irritate the eye or skin. May be harmful if inhaled or swallowed. If involved in fire, use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| OSHA Hazards | No known OSHA hazards |
| NFPA Rating | |
| Health Hazard: | 0 |
| Fire: | 0 |
| Reactivity Hazard: | 0 |
| Primary route(s) of entry | Skin, eyes. |
| Symptoms of exposure | |
| Inhalation | May cause respiratory tract irritation, experienced as coughing |
| Eye contact | May cause irritation, experienced as pain, redness, or tearing |
| Skin contact | May cause irritation, experienced as redness or swelling. |
| Ingestion | May cause irritation to gastro-intestinal tract, nausea and/or vomiting, diarrhea and other adverse health effects. |
| Medical conditions aggravated by exposure | None known. |
| Listed as carcinogen or potential carcinogen | Not listed by OSHA, the International Agency for Research on Cancer (IARC), or the National Toxicology Program (NTP) |

4. FIRST AID

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|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult. Give artificial respiration if not breathing. |
| Eye contact | Immediately rinse eyes slowly and gently with water for at least 15 minutes while holding eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Remove any contact lenses after the first 5 minutes and then continue flushing eyes. Clean contacts before reuse. Seek medical attention if irritation develops and persists. |
| Skin contact | Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops and persists. |
| Ingestion | Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an |

unconscious or convulsing person.

Note to physician

Treat symptomatically. The toxicological properties of this product have not been determined.

5. FIRE FIGHTING MEASURES

| | |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Flash Point and Method | N/A |
| General hazard | Does not present any special hazards. |
| Extinguishing media | Use media suitable for the material that is burning. |
| Extinguishing media to avoid | None |
| Special firefighting instructions | Move containers from area if it can be done without risk. |
| Firefighting equipment | As in any fire, wear NIOSH (US) or CEN (EU) approved, positive-pressure, self-contained breathing apparatus and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

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|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions | Wear appropriate protective equipment (see Section 8). |
| Environmental precautions | Keep out of sewers and waterways. |
| Clean-up methods | Absorb liquid with vermiculite or other similar material. Sweep up and place in a suitable container for disposal. Keep large spills out of sewers or waterways. |

7. HANDLING AND STORAGE

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|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin or clothing. Do not pipette by mouth. Wash thoroughly after handling. |
| Storage | Keep container closed. Store in a dry place at room temperature. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|-----------------------------|------------------------------------------------------------------------------------------------|
| Engineering controls | General ventilation |
| Personal Protection | |
| Respirator | None required under normal use conditions. |
| Eye Protection | Rubber gloves are recommended as a minimum when handling chemicals. |
| Gloves | Wear rubber gloves. |
| Clothing | Long sleeved laboratory coats or jackets are recommended as a minimum when handling chemicals. |
| Other | Eye wash, emergency shower. |

OSHA Permissible Exposure Limits (PELs) N/A

American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLVs) N/A

Other recommended exposure limits This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|--------------------------|----------------------------------|--------------------------|
| Physical State | Gel particle | Color | White |
| Odor | No information available | Odor threshold | No information available |
| pH | No information available | Flash point | Not applicable |
| Melting point | No data available | Freezing point | No information available |
| Initial boiling point | No information available | Boiling range | Not applicable |
| Evaporation rate | No information available | Flammability | No information available |
| Upper flammability | No data available | Lower flammability | No data available |
| Vapor pressure | No information available | Vapor density | No information available |
| Relative density | No information available | Viscosity | No information available |
| Solubility | Insoluble | Partition coefficient | No data available |
| Auto-ignition temperature | No information available | Decomposition temperature | No information available |

10. STABILITY AND REACTIVITY

| | |
|-----------------------------------------|------------|
| Reactivity | Stable |
| Materials to avoid | None known |
| Conditions to avoid | None known |
| Hazardous decomposition products | None known |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity No information on product available.

| | |
|-------------------------------------------------------|---------------------------|
| Chronic Toxicity | No information available. |
| Germ cell mutagenicity | No information available. |
| Specific Target Organ Toxicity (STOT) exposure | No information available. |
| Reproductive toxicity | No information available. |
| Aspiration hazard | No information available. |

12. ECOLOGICAL INFORMATION

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|----------------------------------|--------------------------------------------------------------------------------------------------|
| Ecotoxicity | No information on product available. |
| Persistence/degradability | No information on product available. |
| Movement/partitioning | No information available. Expected to be mobile in the environment due to high water solubility. |

13. DISPOSAL CONSIDERATIONS

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|----------------------------------|------------------------------------------------------------|
| RCRA hazardous waste code | Not regulated |
| Special instructions | Observe all federal, state and local laws and regulations. |

14. TRANSPORT INFORMATION

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|-------------------------|---------------------|
| DOT hazard class | Not Dangerous Goods |
| TDG hazard class | Not Dangerous Goods |
| IMDG | Not Dangerous Goods |

15. REGULATORY INFORMATION

OSHA regulatory status (29 CFR 1910.1200) Hazardous

| CERCLA reportable quantity (40 CFR 117, 302) | Name | Reportable quantity (lbs) |
|-----------------------------------------------------|----------------|----------------------------------|
| | Not reportable | N/A |

| SARA extremely hazardous substances (40 CFR 355) | Name | Threshold planning quantity (lbs) | Reportable quantity (lbs) |
|---------------------------------------------------------|-------------|------------------------------------------|----------------------------------|
| | None | N/A | N/A |

| | | | |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| SARA hazard categories (40 CFR 370) | None | | |
| SARA toxic chemicals (40 CFR 372) | Name | CAS Number | Percentage |
| | None | N/A | N/A |
| Inventory Status | The chemicals in this product are listed on the US TSCA Chemical Substances Inventory and the Canadian Domestic Substances List. | | |
| Toxic Substance Control Act | May only be used for research and development purposes in small quantities by, or under the direct supervision of, technically qualified persons in compliance with 40 CFR Section 720.36. | | |
| Controlled Products Regulations | This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information. | | |
| WHMIS classification | Not a controlled product. | | |
| Right to Know Components | Name | CAS Number | |
| | Cross-linked dextran | 9048-71-9 | |
| California Prop. 65 Components | This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects. | | |

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| 16. OTHER INFORMATION |
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Abbreviations

C – Ceiling limit
 ERG – Emergency Response Guidebook
 LC₅₀ – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period.
 LD₅₀ – The dose that causes death in 50% of test animals.
 N/A – Not applicable
 N/D – Not determined
 N/E – Not established
 N/K – Not known
 PIN – Product Identification Number
 RQ – Reportable Quantity
 STEL – Short Term Exposure Limit
 TPQ – Threshold Planning Quantity
 TWA – Time Weighted Average
 WHMIS – Workplace Hazardous Materials Information System

Preparation information

Date prepared January 14, 2015
Date revised May 23, 2019

MSDS Number 4050167

Disclaimer

The above information is believed correct but does not purport to be all-inclusive and shall only be used as a guide. Edge BioSystems shall not be held liable for any damage resulting from handling or from contact with the above product.