

# Safety Data Sheet

## SECTION 1: Identification

### Contact information

#### General



Vizgen, Inc.  
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**Emergency telephone number** Chemtrec (24-hour availability):  
+1 (800) 424-9300 (USA and Canada);  
+1 (703) 527-3887 (International; collect calls accepted)

<b>Product identifier</b>	Fluorescent Fiducial Premix
<b>Product number</b>	20300025
<b>Trade name</b>	Not applicable
<b>Chemical family</b>	Mixture
<b>Recommended uses and restrictions</b>	Reagent for research and development purposes only.
<b>Note</b>	This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product/mixture. Workers manufacturing this product/mixture should consult the SDS of each hazardous ingredient for hazard information and handling recommendations. This SDS will be revisited if more data become available.

## SECTION 2: Hazard(s) identification

**Classification of the substance or mixture** Not classified

### Label elements

<b>GHS Hazard pictograms</b>	Not applicable
<b>GHS Signal word</b>	Not applicable
<b>GHS Hazard statements</b>	Not applicable
<b>GHS Precautionary statements</b>	Not applicable

**Other hazards** No data identified for the mixture. The following data describe the hazards of individual ingredients, where applicable. Fluorescent polystyrene beads are considered to be non-hazardous.

**Note** This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA). Nevertheless, it should be handled with caution as it has not yet been fully tested.

## SECTION 3: Composition/Information on ingredients

Ingredient	CAS number	EINECS/ELINCS#	Amount	GHS classification
Polystyrene	9003-53-6	500-008-9	< 5%	Not classified

**Note** The principal ingredient in this mixture is distilled water. Any remaining components are not hazardous and/or are present at amounts below reportable limits.

## SECTION 4: First-aid measures

### Description of first aid measures

**Immediate medical attention and special treatment, if necessary** No. If exposed or concerned: get medical advice/attention.

**Inhalation** Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

<b>Skin contact</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Eye contact</b>	If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Ingestion</b>	If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
<b>Most Important Symptoms/Effects</b>	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.
<b>Expected Symptoms/Effects, Acute and Delayed</b>	See Sections 2 and 11

## SECTION 5: Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the chemical</b>	No information identified. May emit carbon monoxide, carbon dioxide
<b>Fire hazard</b>	No information identified. As product is an aqueous solution, it is not expected to be flammable.
<b>Explosion hazard</b>	No information identified. As product is an aqueous solution, it is not expected to be explosive.

### Special protective equipment and precautions for fire-fighters

<b>Firefighting instructions</b>	In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use.
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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>Protective equipment</b>	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.
<b>Emergency procedures</b>	Do not breathe vapors/mist/spray.
<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment.

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g. paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice with an appropriate solvent (see Section 9).
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<b>Reference to other sections</b>	See Sections 8 and 13 for more information.
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## SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	Follow recommendations for handling bulk formulated biochemical reagents (i.e. use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin, and other mucous membranes. Wash thoroughly after handling. Do not breathe vapor/mist/spray.
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### Conditions for safe storage, including any incompatibilities

<b>Storage conditions</b>	Store refrigerated. Store protected from light, away from incompatible materials.
<b>Storage temperature</b>	≤ 4° C

<b>Specific end use(s)</b>	Research and development.
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## SECTION 8: Exposure controls/personal protection

### Control parameters/Occupational Exposure Limits

<b>Name</b>	<b>Issuer</b>	<b>Value</b>
Polystyrene	No data available	No data available

<b>Appropriate engineering controls</b>	Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Use engineered local exhaust ventilation (LEV) and/or enclosure for procedures where aerosolization may occur such as opened transfers, pumping, and spraying. Solutions can be handled outside a containment system or without LEV during procedures with no potential for aerosolization.
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<b>Respiratory protection</b>	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. At a minimum, a tight-fitting full-face respirator with HEPA filters is required when performing aerosol-generating operations. A powered air-purifying respirator (PAPR) with HEPA filters and head cover is required for spill cleanup.
<b>Hand protection</b>	Wear nitrile or other impervious gloves if skin contact is possible. When the material is diluted in an organic solvent, wear gloves that provide protection against the solvent.
<b>Eye protection</b>	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Skin and body protection</b>	Wear disposable coveralls appropriate to the task, booties, and safety glasses with side shields. Ensure gloves are protective against solvents in use. Protective garments (coveralls, disposable coveralls, lab coats) are not to be worn in common areas (e.g., cafeterias) or out-of-doors. Employees must be trained in proper gowning and degowning practices
<b>Other protective measures</b>	Wash hands in the event of contact with material, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).
<b>Environmental exposure controls</b>	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

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## SECTION 9: Physical and chemical properties

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<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear
<b>Formula</b>	Not applicable (Mixture)
<b>Molecular mass</b>	Not applicable (Mixture)
<b>Color</b>	No data available
<b>Odor</b>	No data available
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Relative evaporation rate (butyl acetate=1)</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Relative vapor density at 20 °C</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility</b>	Soluble in water (aqueous solution)
<b>Log Pow</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Explosion limits</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

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## SECTION 10: Stability and reactivity

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<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	No dangerous reactions known under normal conditions of use.
<b>Conditions to avoid</b>	None under recommended storage and handling conditions (see section 7).
<b>Incompatible materials</b>	Protect from light.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION 11: Toxicological information

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**Likely routes of exposure**

May be absorbed by inhalation, skin contact and ingestion.

**Toxicological information****Acute toxicity****Component****Type****Dose**

Component	Type	Dose
Polystyrene	No data available	No data available
Additional information	No data available	
Serious eye damage/irritation	No data available	
Skin corrosion/irritation	No data available	
Sensitization	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Reproductive toxicity	No data available	
Developmental toxicity	No data available	
Genotoxicity	No data available	
Carcinogenicity	No data available. None of the components of the mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen	
Aspiration hazard	No data available	
Experience with humans	See "Section 2 - Other Hazards".	

**SECTION 12: Ecological information****Toxicity****Component****Type****Concentration**

Component	Type	Concentration
Polystyrene	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 assessment	No data available	
Other adverse effects	No data available	
Note	The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided.	

**SECTION 13: Disposal considerations****Waste treatment methods**

Used product should be disposed of according to local, state, and federal regulations. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g. appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g. appropriately permitted municipal or on-site wastewater treatment facility.

**SECTION 14: Transport information****Transport**

Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

**UN number**

None assigned.

**UN proper shipping name**

None assigned.

**Transport hazard class(es) (DOT)**

None assigned.

**Packing group**

None assigned.

**Marine pollutant**

Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.

**Special transport precautions**

Avoid release to the environment.

**Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Chemical safety assessment**

This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

**TSCA**

No chemical safety assessment has been carried out.

**SARA Section 313 - Emission Reporting**

All components of this product are listed as active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This substance or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**California Proposition 65**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

**Additional information**

This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

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**SECTION 16: Other information**

**Full text of H phrases and GHS classification**

Not applicable

**Data sources**

Information from published literature and internal company data.

**Abbreviations and acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

**Issue date**

27 October 2021

**Current revision**

1.0

**Indication of changes**

This is the first version of this SDS.

**Disclaimer**

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a biochemical reagent. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.