Safety Data Sheet

SECTION 1: Identification

Contact information General	VIZઊ	en	
	Vizgen, Inc. 61 Moulton St. Cambridge, MA 0 Main: +1 (833) 22 E-mail: info@vizg	22-8206	
Emergency telephone number	Chemtrec (24-hour availability): +1 (800) 424-9300 (USA and Canada); +1 (703) 527-3887 (International; collect calls accepted)		
Product identifier		MERSCOPE 140 Gene Panel, V 2.0; MERSCOPE 300 Gene Panel, V 2.0; MERSCOPE 500 Gene Panel, V 2.0; MERSCOPE 1000 Gene Panel, V 2.0; MERSCOPE Training A2M1620 Library, V 2.0; MERSCOPE Mouse Pan Neuro Panel 815 Gene, V 2.0; MERSCOPE Human ImmunoOncology Panel 815 Gene, V 2.0; MERSCOPE Human Brain Panel 815 Gene, V 2.0; MERSCOPE Human Breast Cancer Panel 815 Gene, V 2.0; MERSCOPE Pan Mouse Panel 815 Gene, V 2.0	
Product number		20300195; 20300196; 20300197; 20300198; 20300199; 20300200; 20300201; 20300202; 20300203; 20300204	
Trade name		Not applicable	
Chemical family		Mixture	
Recommended uses and	restrictions	Reagent for research and development purposes only.	
Note		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 mixtur	re
	Not classified
Label elements	
GHS Hazard pictograms	Not applicable
GHS Signal word	Not applicable
GHS Hazard statements	Not applicable
GHS Precautionary statements	Not applicable
Other hazards	No data identified for the mixture. The following data describe the hazards of individual ingredients, where applicable.
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
Oligodeoxyribonucleic acid (unmodified, modified)	N/A	N/A	< 5 %	Not classified

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Note
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Oligodeoxyribonucleic acid (DNA) is not classified but is listed as it is considered pharmacologically active. Amounts are listed as ranges; the exact percentage of composition is withheld as a trade secret. The remaining components of this product are non-hazardous and/or present in formulation at amounts below reportable limits. See Section 16 for full text of GHS classifications.

Vizgen, Inc. - MERSCOPE Gene Panel, V 2.0 Document number: 93200130 Document revision: B Revision date: March 2025

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.
Skin contact	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
Eye contact	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.
Ingestion	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.
Most Important Symptoms/Effects	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.
Expected Symptoms/Effects, Acute and Delayed	See Sections 2 and 11
SECTION 5: Fire-fighting measures	

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Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen and other nitrogen-containing compounds.
No information identified. As product is an aqueous solution, it is not expected to be flammable.
No information identified. As product is an aqueous solution, it is not expected to be explosive.
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.

SECTION 6: Accidental release measures

Personal precautions, protective equip	ment and emergency procedures
Protective equipment	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.
Emergency procedures	Do not breathe vapors/mist/spray.
Environmental precautions	Do not empty into drains. Avoid release to the environment.
Methods and material for containment a	and cleaning up
Methods for cleaning up	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).
Reference to other sections	See Sections 8 and 13 for more information.
SECTION 7: Handling and stora	lge
Precautions for safe handling	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.

Conditions for safe storage, including any incompatibilities Storage conditions Store at NMT -20° C, away from incompatible materials. ≤ -20 °C Storage temperature Specific end use(s) Research and development.

SECTION 8: Exposure controls/personal protection

Control parameters/Occupational Exposure Limits

Control parameters/Occupati	onal Exposure Limits	
Name	Issuer	Value
Oligodeoxyribonucleic acid (unmodified, modified)	No data available	No data available
Appropriate engineering cont	assessment of expo points. Use enginee aerosolization may o	f containment devices and personal protective equipment should be based on a risk sure potential. Use local exhaust and/or enclosure at aerosol/mist-generating red local exhaust ventilation (LEV) and/or enclosure for procedures where occur such as opened transfers, pumping, and spraying. Solutions can be handled ent system or without LEV during procedures with no potential for aerosolization.
Respiratory protection	controls. At a minim	y protection should be appropriate to the task and the level of existing engineering um, a tight-fitting full-face respirator with HEPA filters is required when performing operations. A powered air-purifying respirator (PAPR) with HEPA filters and head spill cleanup.
Hand protection		impervious gloves if skin contact is possible. When the material is diluted in an ar gloves that provide protection against the solvent.
Eye protection		with side shields, chemical splash goggles, or full face shield, if necessary. Base tion on the job activity and potential for contact with eyes or face. An emergency eye be available.
Skin and body protection	gloves are protective coats) are not to be	veralls appropriate to the task, booties, and safety glasses with side shields. Ensure e against solvents in use. Protective garments (coveralls, disposable coveralls, lab worn in common areas (e.g., cafeterias) or out-of-doors. Employees must be trained nd degowning practices
Other protective measure		event of contact with material, especially before eating, drinking or smoking. nt is not to be worn outside the work area (e.g., in common areas or out-of-doors).
Environmental exposure controls	liquid emissions sho release to drains. In	environment and operate within closed systems wherever practicable. Air and build be directed to appropriate pollution control devices. In case of spill, do not aplement appropriate and effective emergency response procedures to prevent contamination and to prevent inadvertent contact by personnel.

SECTION 9: Physical and chemical properties

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

SECTION 10: Stability and reactivity

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

Likely routes of exposure	May be absorbed by inhalation, skin contact and ingestion.		
Toxicological information Acute toxicity			
Component	Туре	Dose	
Oligodeoxyribonucleic acid (unmodified, modified)	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	Repeated parenteral exposure of mice and rats to moderate doses of various oligonucleotides led to pro-inflammatory effects. Such effects were not reported in monkeys in similar studies.		
Reproductive toxicity	Oligonucleotides are not likely to adversely affect reproduction.		
Developmental toxicity	Oligonucleotides are not likely to adversely affect embryo/fetal development		
Genotoxicity	Oligonucleotides tested in a battery of in vitro and in vivo genotoxicity studies were negative.		
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	Туре	Concentration
Non-hazardous reagents	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.	

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 infor	mation
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	Not applicable
Marpol and the IBC Code	
SECTION 15: Regulatory information	
Safety, health and environmental regulations/legislation specific for the substance or mixture	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.
Chemical safety assessment	No chemical safety assessment has been carried out.
TSCA	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.
SARA Section 313 - Emission Reporting	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.
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; NMT - Not More Than; 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	March 2025
Current revision	B
Indication of changes	This is the second 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.