Safety Data Sheet

SECTION 1: Identification

Contact information General



Vizgen, Inc. 61 Moulton St.

Cambridge, MA 02138 Main: +1 (833) 222-8206 E-mail: info@vizgen.com

Emergency telephone

number

Chemtrec (24-hour availability): +1 (800) 424-9300 (USA and Canada);

+1 (703) 527-3887 (International; collect calls accepted)

Product identifier Wash Buffer 2, BULK

Product number 20200001 Trade name Not applicable **Chemical family** Mixture

Recommended uses and restrictions

Note

Reagent for research and development purposes only.

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

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.

This mixture does not meet criteria for classification under GHS as implemented by Regulation Note

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
Non-hazardous reagents	N/A	N/A	100%	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 Inhalation

No. If exposed or concerned: get medical advice/attention.

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

Suitable (and unsuitable) extinguishing media

and materials.

Specific hazards arising from the chemical No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen and

other nitrogen-containing compounds.

Fire hazard No information identified. As product is an aqueous solution, it is not expected to be flammable.

Explosion hazard No information identified. As product is an aqueous solution, it is not expected to be explosive.

Special protective equipment and precautions for fire-fighters Firefighting instructions

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 equipment 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 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 sectionsSee Sections 8 and 13 for more information.

SECTION 7: Handling and storage

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.

Storage temperature ≤ -20 °C

Specific end use(s) Research and development.

SECTION 8: Exposure controls/personal protection

Control parameters/Occupational Exposure Limits

Name	issuer	value
Non-hazardous reagents	No data available	No data available

The data available

Appropriate engineering controls

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.

Respiratory protection 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.

Hand protectionWear 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.

Eye protection 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.

Skin and body protection 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

Other protective measures

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).

Environmental exposure

controls

Relative density

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.

SECTION 9: Physical and chemical properties

Physical stateLiquidAppearanceClear

Formula Not applicable (Mixture) Molecular mass Not applicable (Mixture) Color No data available Odor No data available Odor threshold No data available pН 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

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 No data available **Explosion limits 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.

No data available

Chemical stability Stable under normal conditions

Possibility of hazardous reactions 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.

SECTION 11: Toxicological information

Likely routes of exposure

May be absorbed by inhalation, skin contact and ingestion.

Toxicological information

Acute toxicity

Component Type Dose

Non-hazardous reagents	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		the components of the mixture present at levels greater than or NTP, IARC, ACGIH or OSHA as a carcinogen
Aspiration hazard	No data available	
Experience with humans	See "Section 2 - Other Haz	zards".

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.	

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

TransportBased 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

TSCA

SARA Section 313 - Emission Reporting

California Proposition 65

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.

No chemical safety assessment has been carried out.

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

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

Data sources

Abbreviations and acronyms

Not applicable

Information from published literature and internal company data.

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

27 October 2021

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This is the second version of this SDS.

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.

Issue date
Current revision
Indication of changes
Disclaimer