# **Safety Data Sheet**

### **SECTION 1: Identification**

## **Contact information** General



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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)

Digestion Premix **Product identifier Product number** 20300005 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 Not applicable **GHS Hazard statements** Not applicable **GHS Precautionary statements** 

Other hazards No data were available for the mixture. The following data describe the hazards associated with

the active ingredient and/or the individual ingredients where applicable.

Tromethamine HCI is irritating to eyes, skin, and respiratory tract.

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
Tromethamine HCI	1185-53-1	214-684-5	< 2 %	Skin Irrit. 2, H315 Eve Irrit. 2, H319
				STOT SE 3, H335

The ingredients listed above are considered hazardous. The remaining components are non-hazardous and/or present Note at amounts below reportable limits. See Section 16 for full text of GHS classifications .

## **SECTION 4: First-aid measures**

Description of first aid measures

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

Inhalation If experiencing respiratory symptoms: Call a poison center or a doctor. 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

Dalarad Symptoms

See Sections 2 and 11

Delayed

# **SECTION 5: Fire-fighting measures**

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire

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.

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

**Explosion hazard** 

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..

Other information Dispose of materials or solid residues at an authorized site.

**Reference to other sections**See 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

Tromethamine HCI No data available No 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 protection 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.

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 this product/mixture, 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). Decontaminate all protective equipment following use.

**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 state Liquid
Appearance Clear

Formula Not applicable (Mixture)

Molecular mass Not applicable (Mixture)

ColorColorlessOdorOdorless

Odor threshold No data available pН No data available **Melting point** No data available Freezing point No data available No data available **Boiling point** 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 No data available **Auto-ignition temperature Decomposition temperature** No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** No data available No data available **Explosive properties** 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

Tromethamine HCI No data available No data available

Additional information No data available

Serious eye damage/irritationTromethamine HCl is irritating to eyes.Skin corrosion/irritationTromethamine HCl is irritating to skin.

SensitizationNo data availableSTOT-single exposureNo data availableSTOT-repeated exposureNo data availableReproductive toxicityNo data availableDevelopmental toxicityNo data availableGenotoxicityNo data available

Carcinogenicity

No data available. None of the components of this product/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			
Tromethamine HCI	EC50 crustacea	> 100 mg/l 48 h			
Persistence and degradability	No additional information available.				
Bioaccumulative potential	No data available.				
Mobility in soil	No data available	ıta 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.				

#### **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

Vizgen, Inc. - Imaging Buffer; Digestion Premix Revision date:27 October 2021,Version:1.0

## **SECTION 15: Regulatory information**

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

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

Eye Irrit. 2 - Serious eye damage/eye irritation Category 2.

Skin Irrit. 2 - Skin corrosion/irritation Category 2.

STOT SE 3 - Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

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

1.0

This is the first 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.

Data sources

Abbreviations and acronyms

Issue date
Current revision
Indication of changes
Disclaimer