

Material Safety Data Sheet

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Section I - Substance Identity and Company Contact Information

Trade Name: Genomic Wash Buffer

Company Contact:

Gerard Biotech LLC

20 West High Street

Oxford, OH 45056

Telephone:

866-437-2735

Fax:

866-437-2899

Emergency:

CHEMTREC: 800-424-9300 (USA)

Section II – Chemical Composition and Data on Components

Component	CAS #	%
Guanidinium Thiocyanate	593-84-0	Proprietary information
Other Non Hazardous	NA	Proprietary information

Section III – Hazards Identification**Physical State and Appearance**

Liquid

Emergency Overview

Warning! Harmful if inhaled, absorbed through skin or swallowed causes respiratory tract, eye and skin irritation. Emits toxic fumes when heated or in contact with acids.

Routes of Entry

Absorbed through skin. Dermal contact. Eye contact. Inhalation, Ingestion.

Potential Acute Health Effects

A mildly hazardous product which may irritate eyes and skin and is expected to have moderate inhalation or ingestion toxicity. May produce hazardous vapors, including nitrous oxide and cyanide, if heated to decomposition.

Eyes Exposure

May cause eye irritation (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin Exposure

May cause skin irritation (permeator, irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation

May cause lung irritation in case of inhalation. May cause irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. May cause allergic reaction in sensitive individuals.

Ingestion

May be harmful in case of ingestion. May cause severe gastrointestinal tract irritation and damage

Carcinogenic Effects

This material is not known to cause cancer in animals or humans. For additional information see Toxicological information (section 11).

Potential Chronic Health Effects

May produce hazardous vapors, including nitrous oxide and cyanide, if heated to decomposition. To the best of our knowledge the, the chemical physical and toxicological properties have not been thoroughly investigated.

Additional information See Toxicological Information (section 11)**Medical Conditions Aggravated by Overexposure**

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV – First aid measures**Eye Contact**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section V – Fire Fighting Measures

Flammability of the Product	Non flammable
Auto-ignition Temperature	Not applicable
Flash Points	Not applicable
Flammable Limits	Not applicable
Products of Combustion	Not available
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	
Risks of explosion of the product in presence of static discharge:	No
Risks of explosion of the product in presence of mechanical impact:	No

Fire Fighting Media and Instructions In case of fire, use extinguishment media appropriate to surrounding fire conditions.

Protective Clothing (Fire) Wear positive pressure, self contained
Special Remarks on Fire Hazards Not available
Special Remarks on Explosion Hazards Not available

Section VI – Accidental Release Measures

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill and Leak

Evacuate area, allowing trained personnel to use pre-planned procedures to perform cleanup. Wear personal protective equipment as required. Absorb liquid with polypads or other appropriate material. Decontaminate and ventilate area. Place spill residue in sealed double bags. Dispose of contaminated material in accordance with federal, state and local hazardous waste disposal regulations.

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Spill Kit Information

No specific spill kit required for this product.

Section VII – Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest.
 Keep container closed.
Storage Keep container tightly closed in a cool, well ventilated area at room temperature

Section VIII – Exposure Controls and Personal Protection

Safety shower and eye bath. System of local and/ or general exhaust is recommended. Chemical safety goggles (tightly sealed), appropriate protective rubber gloves, appropriate clothing to prevent skin exposure. Wash thoroughly after handling; do not get in eyes, on skin or on clothing

Section IX – Physical and Chemical Properties

Form: Liquid
Color: Colorless
Odor: Strong
pH factor: Not available
Vapor Pressure: Not Available

Vapor Density: Not Available
Evaporation rate: Not Available
Viscosity: Not Available
Melting Point: Not Available
Flash Point: Not Available
Explosion Level: Not Available
Solubility in Water: Not Available
LogKow: Not Available
Specific Gravity: Not Available

Section X – Stability and Reactivity

Stability: Stable under normal pressure and temperature.
Substances to be avoided: strong acids, strong oxidizing agents, acid, chlorides, heating to decomposition or contact with acids or acid vapors can liberate poisonous cyanide, iodine and sodium oxide vapors
Hazardous Decomposition
Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.
Conditions to Avoid: Heat, spark, flame, direct sunlight, sensitive to light.

Section XI Toxicological Information

RTECS Number: Guanidinium Thiocyanate XL1225000
Toxicity LD50: Not available.
LC50: Not available.
Synergetic Products Not available. (Toxicologically)
Irritancy Draize Test: Not available.
Sensitization Not available.

Carcinogenic Effects

This material is not known to cause cancer in animals or humans.
Toxicity to Reproductive System Not available.
Teratogenic Effects Not available.
Mutagenic Effects Not available.

Section XII Ecological Information

Ecotoxicity Not available.
BOD5 and COD Not available.

Toxicity of the Products
of Biodegradation The products of degradation are less toxic than the product itself.

Section XIII Disposal Considerations

EPA Waste Number Not available.

Treatment Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations

Section XIV – Transport Information

No information available

Section XV - Regulatory Information

U.S. Federal TSCA 8(b) inventory: Guanidinium Thiocyanate Regulations

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Class D–2B: Material causing other toxic effects (TOXIC).

CEPA DSL: Guanidinium Thiocyanate

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations EINECS Guanidinium Thiocyanate 209–812–1 DSCL (EEC) R37/38– Irritating to respiratory system and skin.

Section XVI – Other Information

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