

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 05/15/2024

Reviewed on 05/15/2024

Seraseq Inherited Cancer DNA Mix

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix **Rev. Number:** 1 **Rev. Date:** May 29, 2024

1 Identification

- **Product Identifier**
- **Trade Name: Seraseq Inherited Cancer DNA Mix v2**
- **Product Number:** 0730-0069
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:**
Controls (for In Vitro Diagnostics Use) and Reference materials/Panels (Research Use Only)
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
LGC Clinical Diagnostics, Inc
37 Birch Street
Milford, MA 01757
Phone #: (508) 244-6400
US Toll Free: (800) 676-1881
Fax #: (508) 634-3394
www.seracare.com
Email: CDx-CustomerService@LGCGroup.com
- **Emergency telephone number:**
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)
Account number: CCN12505
AUSTRALIA – POISONS INFORMATION CENTER Telephone: 13 11 26
CANADIAN TRANSPORT EMERGENCY CENTER Telephone: (1) 613 996 6666

2 Hazard(s) Identification

- **Classification of the substance or mixture:**
Eye Irritation 2B H320 Causes eye irritation.

- **Label elements:**
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Warning
- **Hazard statements:**
H320 Causes eye irritation.
- **Precautionary statements:**
P264+P265 Wash thoroughly after handling. Do not touch eyes.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317 If eye irritation persists: Get medical help.
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



Seraseq Inherited Cancer DNA Mix

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix Rev. Number: 1 Rev. Date: May 29, 2024

· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	0	Fire = 0
REACTIVITY	0	Physical Hazard = 0

· **Hazard(s) not otherwise classified (HNOC):** None known* **3 Composition/Information on Ingredients**· **Non-hazardous components:**

Plasmid DNA	<0.1%
Human genomic DNA	<0.1%

· **Chemical characterization: Substance**· **Description:** Mixture of substances listed below with non-hazardous additions.· **Dangerous Components:**

CAS: 60-00-4 RTECS: AH 4375000	Edetic acid	⚠ Eye Irritation 2A, H319	≥10%
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· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

* **4 First-Aid Measures**· **Description of first aid measures**· **General information:** If symptoms persist, call a physician.· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally, the product does not irritate the skin. If skin irritation occurs, consult a doctor.· **After 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. Get medical attention if irritation occurs.

· **After swallowing:** If swallowed and symptoms occur, consult a doctor.· **Information for doctor**· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.· **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.**5 Fire-Fighting Measures**· **Extinguishing media**· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.· **For safety reasons unsuitable extinguishing agents:** No further relevant information.· **Special hazards arising from the substance or mixture:** No further relevant information available.· **Advice for firefighters**· **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures· **Personal precautions, protective equipment and emergency procedures:**

Avoid breathing vapors, mist or gas. Avoid prolonged contact with eyes, skin, and clothing.

· **Environmental precautions:** Avoid spillage into drains.· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· **Reference to other sections:**

See Section 7 for information on safe handling.

Seraseq Inherited Cancer DNA Mix

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix **Rev. Number:** 1 **Rev. Date:** May 29, 2024

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· PAC-1:		
60-00-4	Edetic acid	4.1 mg/m ³
· PAC-2:		
60-00-4	Edetic acid	45 mg/m ³
· PAC-3:		
60-00-4	Edetic acid	200 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** Wear appropriate PPE.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store at recommended temperature.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.

(Contd. on page 4)

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix Rev. Number: 1 Rev. Date: May 29, 2024

· **Eye protection:**

Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** 7· **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.

· **Flash point:** None· **Flammability (solid, gaseous):** Not applicable.· **Auto igniting:** Not applicable· **Decomposition temperature:** Not determined.· **Ignition temperature:** Product is not self-igniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapor pressure:** Not determined.· **Density:** Not determined.· **Relative density:** Not determined.· **Vapor density:** Not determined.· **Evaporation rate:** Not determined.· **Solubility in / Miscibility with:**

Water:	Not miscible or difficult to mix.
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· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

· **Solvent content:**

VOC content:	0.00 %
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(Contd. on page 5)

Seraseq Inherited Cancer DNA MixDoc. No.: SDS-Seraseq-Inherited Cancer DNA Mix **Rev. Number:** 1 **Rev. Date:** May 29, 2024

- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- **Incompatible materials:** Strong oxidizing agents, acids and bases.
- **Hazardous decomposition products:**
Carbon oxides, Nitrogen Oxides, No decomposition if stored and applied as directed.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

60-00-4 Edetic acid

Oral LD50 4,500 mg/kg (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 6)

Seraseq Inherited Cancer DNA Mix

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix Rev. Number: 1 Rev. Date: May 29, 2024

- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:** Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:** No further relevant information available.
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act):**

60-00-4 | Edetic acid

ACTIVE

- **Hazardous Air Pollutants**

None of the ingredients are listed.

- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

(Contd. on page 7)

Seraseq Inherited Cancer DNA Mix

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix Rev. Number: 1 Rev. Date: May 29, 2024

· Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
· New Jersey Right-to-Know List:	
60-00-4	Edetic acid
· New Jersey Special Hazardous Substance List:	
None of the ingredients are listed.	
· Pennsylvania Right-to-Know List:	
60-00-4	Edetic acid
· Pennsylvania Special Hazardous Substance List:	
60-00-4	Edetic acid
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· Carcinogenic categories:	
· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· TLV (Threshold Limit Value established by ACGIH):	
None of the ingredients are listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health):	
None of the ingredients are listed.	
· GHS label elements	
The product is classified and labeled according to the Globally Harmonized System (GHS).	
· Hazard pictograms: Non-Regulated Material	
· Signal word: Warning	
· Hazard statements:	
H320 Causes eye irritation.	
· Precautionary statements:	
P264+P265	Wash thoroughly after handling. Do not touch eyes.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317	If eye irritation persists: Get medical help.
· National regulations:	
The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Contact:**· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

(Contd. on page 8)

Seraseq Inherited Cancer DNA Mix

Doc. No.: SDS-Seraseq-Inherited Cancer DNA Mix **Rev. Number:** 1 **Rev. Date:** May 29, 2024

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

· *** Data compared to the previous version altered.**

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