SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

Rev A7: 23/07/2023

SECTION 1: Identification of the Substance and Company/Undertaking

1.1 **Product Identifier**

Product name:	egSEQ Adapter & UDI Primer 193-288 (for Illumina, plate)	
Cat. No.	EG1104	
Specification	96rxn	
Component Cat. No.	EG110401	egSEQ Adapter (15 µM)
	EG110402	UDI Primer N (10 µM each)

1.2 **Relevant identified uses of the substance and uses advised against**

Identified Uses:	Analytical reagent
Restricted Uses:	For research use only. Not available for diagnostic procedures.

1.3 **Details of the supplier of the Safety data Sheet**

Address:	Edinburgh Genetics Limited Pentlands Science Park, Penicuik, United Kingdom EH26 0PZ
Telephone Number:	+44 1312616686
Email Address:	sales@eggenetics.com

1.4 **Emergency Telephone:** +44 1312616686

SECTION 2: Hazards Identification

2.1 **Classification of the mixture**

2.1.1 **Emergency Overview**

egSEQ Adapter (15 µM)	Colourless, Liquid. No known significant effects or critical hazards.
UDI Primer N (10 µM each)	

2.1.2 **Classification according to Regulation (EC) No 1272/2008 (including amendments):**

egSEQ Adapter (15 µM)	Not Classified
UDI Primer N (10 µM each)	

2.1.3 **Classification according to EU Directive 67/548/EEC (including amendments):**

egSEQ Adapter (15 µM)	None
UDI Primer N (10 µM each)	

2.2 **Label elements:**

egSEQ Adapter (15 µM)	None
UDI Primer N (10 µM each)	

Signal word:

egSEQ Adapter (15 µM)	No signal word
UDI Primer N (10 µM each)	

Hazard statements:

egSEQ Adapter (15 µM)	No known significant effects or critical hazards.
UDI Primer N (10 µM each)	

Precautionary statements:

egSEQ Adapter (15 µM)	None
UDI Primer N (10 µM each)	

Prevention:

egSEQ Adapter (15 µM)	N/A

UDI Primer N (10 µM each)	N/A

Disposal:

egSEQ Adapter (15 µM)	N/A
UDI Primer N (10 µM each)	

Storage:

egSEQ Adapter (15 µM)	N/A
UDI Primer N (10 µM each)	

2.3 **Other Hazards:** N/A

2.4 **Additional Information:** The product is not classified as hazardous according to EC and National Regulations.

SECTION 3: Composition / Information on Ingredients

3.1	**Substances**	egSEQ Adapter (15 µM)	Mixture
		UDI Primer N (10 µM each)	Mixture
3.2	**Composition**	egSEQ Adapter (15 µM)	No ingredients harmful to health or enviro
		UDI Primer N (10 µM each)	No ingredients harmful to health or enviro

SECTION 4: First-Aid Measures

4.1 **Description of First Aid Measures**

Ingestion: Wash mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep the head down to avoid vomit entering the lungs. Get medical attention if adverse health effects persist or are severe.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation: Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.

First Aider Protection: None specific

4.2 **Most important symptoms and effects, both acute and delayed**

Potential acute health effects:

egSEQ Adapter (15 µM)	No known significant effects or critical hazards.
UDI Primer N (10 µM each)	No known significant effects or critical hazards.

Over-exposure signs/symptoms:

egSEQ Adapter (15 µM)	No specific data.

UDI Primer N (10 µM each)	No specific data.

4.3 **Indication of immediate medical attention and special treatment needed**

Specific Treatments

egSEQ Adapter (15 µM)	None Specific
UDI Primer N (10 µM each)	None Specific

Notes to Physician

egSEQ Adapter (15 µM)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
UDI Primer N (10 µM each)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Fire-Fighting Measures

5.1 **Extinguishing media (small and large fires)**

Small Fire:	Use an extinguishing agent suitable for the surrounding fire.
Large Fire:	Use an extinguishing agent suitable for the surrounding fire.

5.2.1	**Specific Hazards:**	In a fire or if heated, a pressure increase will occur and the container may burst
5.2.2	**Protective equipment and advice for fire fighters:**	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency measures**

6.1.1 **For non-emergency personnel:**

egSEQ Adapter (15 µM)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
UDI Primer N (10 µM each)	

6.1.2 **For emergency responders:**

egSEQ Adapter (15 µM)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
UDI Primer N (10 µM each)	

6.2 **Environmental Precautions:**

egSEQ Adapter (15 µM)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
UDI Primer N (10 µM each)	

6.3 **Methods and materials for containment and cleaning up:**

egSEQ Adapter (15 µM) UDI Primer N (10 µM each)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Dispose of via a licensed waste disposal contractor.

SECTION 7: Handling and Storage

7.1 **Precautions for safe handling**

Protective measures: Put on appropriate personal protective equipment (see Section 8).

7.2 **Conditions for safe storage, including any incompatibilities:**

egSEQ Adapter (15 µM) UDI Primer N (10 µM each)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 **Specific end use(s) recommendations:**

egSEQ Adapter (15 µM)
UDI Primer N (10 µM each) — Industrial applications, Professional applications.

SECTION 8: Exposure Controls/Personal Protection

8.1 **Control Parameters**

Occupational exposure limits: N/A

8.2 **Exposure controls**

Appropriate engineering controls:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Respiratory protection:	Wear medical protective mask.
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.
Eye protection:	If contact is possible, the following protection should be worn: chemical splash goggles and/or face shield.
Skin protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.Generally, it is recommended to wear a white coat, disposable head cover and disposable shoe cover for protection.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1 **Information on basic physical and chemical properties**

Physical State:

egSEQ Adapter (15 µM)	Liquid
UDI Primer N (10 µM each)	Liquid

9.2 **Colour:**

egSEQ Adapter (15 µM)	Coulourless
UDI Primer N (10 µM each)	Coulourless

9.3 **Odour:**

egSEQ Adapter (15 µM)	Odourless

	UDI Primer N (10 μM each)	Odourless
9.4	**Odour threshold:**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.5	**pH:**	
	egSEQ Adapter (15 μM)	7.5
	UDI Primer N (10 μM each)	7.5
9.6	**Melting/Freezing point:**	
	egSEQ Adapter (15 μM)	0°
	UDI Primer N (10 μM each)	0°
9.7	**Initial boiling point and boiling range:**	
	egSEQ Adapter (15 μM)	100°
	UDI Primer N (10 μM each)	100°
9.8	**Flash point:**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.9	**Evaporation rate:**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.1	**Flammability:**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.11	**Upper/lower flammability or explosive limits:**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.12	**Vapour pressure:**	
	egSEQ Adapter (15 μM)	The main component of the reagent is water. At 20 ℃, the steam pressure of water is 3.2kPa. At 50 ℃, the vapor pressure of water is 12.3 kPa.
	UDI Primer N (10 μM each)	
9.13	**Vapour density**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.14	**Relative vapour density (air=1):**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.15	**Solubility:**	
	egSEQ Adapter (15 μM)	Soluble in water
	UDI Primer N (10 μM each)	Soluble in water
9.16	**Partition coefficient (n-octanol/water):**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.17	**Auto-ignition temperature:**	
	egSEQ Adapter (15 μM)	N/A
	UDI Primer N (10 μM each)	N/A
9.18	**Decomposition temperature:**	

	egSEQ Adapter (15 µM)	N/A
	UDI Primer N (10 µM each)	N/A
9.19	**Viscosity:**	
	egSEQ Adapter (15 µM)	N/A
	UDI Primer N (10 µM each)	N/A

SECTION 10: Stability and Reactivity

10.1	**Reactivity:**	
	egSEQ Adapter (15 µM)	Stable
	UDI Primer N (10 µM each)	Stable
10.2	**Chemical stability:**	
	egSEQ Adapter (15 µM)	Stable
	UDI Primer N (10 µM each)	Stable
10.3	**Possibility of hazardous reactions:**	
	egSEQ Adapter (15 µM)	Under normal conditions of storage and use, hazardous lreactions will not occur.
	UDI Primer N (10 µM each)	
10.4	**Conditions to Avoid:**	
	egSEQ Adapter (15 µM)	No specific data
	UDI Primer N (10 µM each)	No specific data
10.5	**Incompatible materials:**	
	egSEQ Adapter (15 µM)	No specific data
	UDI Primer N (10 µM each)	No specific data
10.6	**Hazardous decomposition products:**	
	egSEQ Adapter (15 µM)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	UDI Primer N (10 µM each)	

SECTION 11: Toxicological Information

11.1	**Acute toxicity:**	No ingredients harmful to health or environment.
11.2	**Irritation/Corrosion**	N/A
11.3	**Senitiser**	N/A
11.4	**Mutagenicity:**	N/A
11.5	**Carcinogenicity:**	N/A
11.6	**Reproductive toxicity:**	N/A
11.7	**Specific target organ toxicity (single exposure):**	N/A
11.8	**Specific target organ toxicity (repeated exposure):**	N/A
11.9	**Aspiration hazard:**	N/A

SECTION 12: Ecological Information

12.1	**Toxicity**	No ingredients harmful to health or environment.
12.2	**Persistence and degradability:**	N/A
12.3	**Bioaccumulative potential:**	N/A
12.4	**Mobility in soil:**	N/A
12.5	**Results of PBT and vPvB assessment:**	N/A
12.6	**Other adverse effects:**	N/A

SECTION 13: Disposal Considerations

13.1 **Waste treatment methods:**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport Information

14.1 **Precautions for transportation :**

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory Information

Nation	Regulation	Information
International	Chemical Weapon Convention List Schedules I, II & III Chemicals	Not listed.
International	Montreal Protocol (Annexes A, B, C, E)	Not listed.
International	Stockholm Convention on Persistent Organic Pollutants	Not listed.
International	Rotterdam Convention on Prior Inform Consent (PIC)	Not listed.
International	UNECE Aarhus Protocol on POPs and Heavy Metals	Not listed.
Europe	Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)	All components are not listed in the list.
United States	Toxic Substances Control Act (TSCA)	Not listed.
United States	TSCA Chemical Substance Inventory	All components are not listed in the list.
Japan	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	All components are not listed in the list.
Turkey	Regulation on the Export and Import of Certain Hazardous Chemicals	All components are not listed in the list.
Turkey	Regulation of Registration, Evaluation, Authorization, and Restriction of Chemicals (KKDIK)	All components are not listed in the list.
China	Inventory of the Existing Chemical Substances in China (IECSC)	All components are listed or exempted.
China	Provisions on Environmental Administration of New Chemical Substances	Not listed.
China	Regulations on Safe Management of Hazardous Chemicals in China	Not listed.
China	Catalog of Hazardous Chemicals	All components are not listed in the list.

China	Catalog of Goods Prohibited from Import	All components are not listed in the list.
China	Catalog of Goods Prohibited from Export	All components are not listed in the list.
China	China Inventory of Severely Restricted Toxic Chemicals	All components are not listed in the list.

SECTION 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.Edinburgh Genetics Limited and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.