



SAFETY DATA SHEET

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

Rev A3: 10/08/2023

SECTION 1: Identification of the Substance and Company/Undertaking

1.1 Product Identifier

Product name: egSEQ Hyb & Wash Kit (Module C, for Illumina)
Cat. No. EG1303
Specification 96rxn
Component Cat. No. EG130301 Post PCR Master Mix
EG130302 Post PCR Primer (25 µM, for Illumina)

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: info@eggenetics.com

1.4 Emergency Telephone: +44 1312616686

SECTION 2: Hazards Identification

2.1 Classification of the mixture

2.1.1 Emergency Overview

Post PCR Master Mix	Colourless, Liquid. H316-Causes mild skin irritation. H320-Causes eye irritation.
Post PCR Primer (25 µM, for Illumina)	Colourless, Liquid. No known significant effects or critical hazards.

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

Post PCR Master Mix	Skin corrosion/irritation-Category 3 Serious eye damage/eye irritation-Category 2B
Post PCR Primer (25 µM, for Illumina)	No classified

2.1.3 GHS Hazard Category

Post PCR Master Mix	H316-Causes mild skin irritation. —Skin corrosion/irritation-Category 3 H320-Causes eye irritation. —Serious eye damage/eye irritation-Category 2B
Post PCR Primer (25 µM, for Illumina)	No classified

2.2 Label elements:

Pictogram:

Post PCR Master Mix	No pictogram.
Post PCR Primer (25 µM, for Illumina)	No pictogram.

Signal word:

Post PCR Master Mix	Warning.
Post PCR Primer (25 µM, for Illumina)	No signal word.

Hazard statements:

Post PCR Master Mix	H316-Causes mild skin irritation. H320-Causes eye irritation.
Post PCR Primer (25 µM, for Illumina)	No known significant effects or critical hazards.

Response:

Post PCR Master Mix	None
Post PCR Primer (25 µM, for Illumina)	

Prevention:	Post PCR Master Mix	P332 + P317-If skin irritation occurs: Get medical help. P305 + P351 + P338-If in eyes: Immediately rinse 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.
	Post PCR Primer (25 µM, for Illumina)	N/A
Disposal:	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A
Storage:	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A

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	Post PCR Master Mix	Mixture
	Post PCR Primer (25 µM, for Illumina)	Mixture

3.2 **Composition**

Product/Ingredient name	Proportion (%)	Identifiers	Classification of Regulation (EC) No.1272/2008.
Post PCR Master mix			
Glycerol	2 to 15	EC: 200-289-5 CAS: 56-81-5	Eye Irrit. 2, H319
2-Amino-2-hydroxymethyl-1,3-propanediol	1 to 5	EC: 201-064-4 CAS: 77-86-1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

SECTION 4: First-Aid Measures

4.1 **Description of First Aid Measures**

Ingestion:

Post PCR Master Mix
Wash mouth with water. 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.

Post PCR Primer (25 µM, for Illumina)
Wash out 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:

Post PCR Master Mix
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if adverse health effects persist or are severe.

Post PCR Primer (25 µM, for Illumina)
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:

Post PCR Master Mix
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.

Post PCR Primer (25 µM, for Illumina)
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:

Post PCR Master Mix	Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.
Post PCR Primer (25 µM, for Illumina)	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:

Post PCR Master Mix	No known significant effects or critical hazards.
Post PCR Primer (25 µM, for Illumina)	Causes mild skin irritation. Causes eye irritation.

Over-exposure signs/symptoms:

Post PCR Master Mix	No specific data.
Post PCR Primer (25 µM, for Illumina)	Skin irritation and redness. Eye pain or irritation, tears and redness.

4.3 Indication of immediate medical attention and special treatment needed

Specific Treatments

Post PCR Master Mix	None Specific
Post PCR Primer (25 µM, for Illumina)	None Specific

Notes to Physician

Post PCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Post PCR Primer (25 µM, for Illumina)	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:

Post PCR Master Mix
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).

Post PCR Primer (25 µM, for Illumina)
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).

6.1.2 For emergency responders:

Post PCR Master Mix
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).

Post PCR Primer (25 µM, for Illumina)

	Post PCR Primer (25 µM, for Illumina)	Coulourless	
9.3	Odour: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	Irritating Odour Odourless	
9.4	Odour threshold: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.5	pH: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A	7.5
9.6	Melting/Freezing point: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A 0°C	
9.7	Initial boiling point and boiling range: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A 100°C	
9.8	Flash point: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.9	Evaporation rate: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.1	Flammability: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.11	Upper/lower flammability or explosive limits: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.12	Vapour pressure: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	The main component of the reagent is water. At 20 °C, the steam pressure of water is 3.2kPa. At 50 °C, the vapor pressure of water is 12.3 kPa.	
9.13	Vapour density Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.14	Relative vapour density (air=1): Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.15	Solubility: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	Soluble in water Soluble in water	
9.16	Partition coefficient (n-octanol/water): Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A	
9.17	Auto-ignition temperature:		

	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A
9.18	Decomposition temperature:	
	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A
9.19	Viscosity:	
	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A

SECTION 10: Stability and Reactivity

10.1	Reactivity:	
	Post PCR Master Mix	Stable
	Post PCR Primer (25 µM, for Illumina)	Stable
10.2	Chemical stability:	
	Post PCR Master Mix	Stable
	Post PCR Primer (25 µM, for Illumina)	Stable
10.3	Possibility of hazardous reactions:	
	Post PCR Master Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Post PCR Primer (25 µM, for Illumina)	
10.4	Conditions to Avoid:	
	Post PCR Master Mix	No specific data
	Post PCR Primer (25 µM, for Illumina)	No specific data
10.5	Incompatible materials:	
	Post PCR Master Mix	No specific data
	Post PCR Primer (25 µM, for Illumina)	No specific data
10.6	Hazardous decomposition products:	
	Post PCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Post PCR Primer (25 µM, for Illumina)	

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Post PCR Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	/
2-Amino-2-hydroxymethyl-1,3-propanediol	LD50 Skin	Rat	>5000 mg/kg	/

Irritation/Corrosion:

Product/ingredient name	Result	Species	Exposure
Post PCR Master Mix			
Glycerol	Eyes - Mild irritant	Rabbit	24h 500mg
	Skin - Mild irritant	Rabbit	24h 500mg
2-Amino-2-hydroxymethyl-1,3-propanediol	Skin - Moderate irritant	Rabbit	0.25
	Skin - Severe irritant	Rabbit	500mg

Sensitiser:

Post PCR Master Mix	N/A
Post PCR Primer (25 µM, for Illumina)	N/A

Mutagenicity:

Post PCR Master Mix	N/A
---------------------	-----

Post PCR Primer (25 µM, for Illumina)	N/A
Carcinogenicity:	
Post PCR Master Mix	N/A
Post PCR Primer (25 µM, for Illumina)	N/A
Reproductive toxicity:	
Post PCR Master Mix	N/A
Post PCR Primer (25 µM, for Illumina)	N/A
Specific target organ toxicity (single exposure):	
Post PCR Master Mix	N/A
Post PCR Primer (25 µM, for Illumina)	N/A
Specific target organ toxicity (repeated exposure):	
Post PCR Master Mix	N/A
Post PCR Primer (25 µM, for Illumina)	N/A
Aspiration hazard:	
Post PCR Master Mix	N/A
Post PCR Primer (25 µM, for Illumina)	N/A

SECTION 12: Ecological Information

12.1

Toxicity

Product/ingredient name	Result	Species	Exposure
Post PCR Master Mix			
Glycerol	Acute LC50 54000 mg/L Fresh water	Fish -Oncorhynchus mykiss	96h
2-Amino-2-hydroxymethyl-1,3-propanediol	Acute EC50 >980 mg/L Fresh water	Daphnia	48h
	Acute NOEC 520 mg/L Fresh water	Daphnia	48h

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 (KDDIK)	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. ©2023 Edinburgh Genetics Ltd. All rights reserved.