

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: Cat. No.	egSEQ Hyb & Wash Kit (Module C, for Illu EG1303	ımina)	
	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 su	ubstance and uses advised against		
	Identified Uses:	Analytical reagent		
	Restricted Uses:	For research use only. Not available for o	liagnostic procedures.	
1.3	Details of the supplier of the Safe	ety data Sheet		
		Edinburgh Genetics Limited		
	Address:	Pentlands Science Park,		
		Penicuik, United Kingdom		
	Talanhana Numbari	EH26 0PZ +44 1312616686		
	Telephone Number: Email Address:			
	Email Address.	info@eggenetics.com		
1.4	Emergency Telephone:	+44 1312616686		
SECTION 2: H	lazards 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 $\mu\text{M},$ 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	
			1	
			H316-Causes mild skin irritation.	
242		Post PCR Master Mix		
2.1.3	GHS Hazard Category	Post PCR Master Mix	H320-Causes eye irritation. ——Serious	
			eye damage/eye irritation-Category 2B	
		Post PCR Primer (25 µM, for Illumina)	No classified	
2.2	Label elements:			
212	Pictogram:	Post PCR Master Mix	No pictogram.	
	0	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 Post PCR Primer (25 µM, for Illumina)	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. 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 hazardo	us according to EC and National

2.4 Additional Information: The product is not classified as hazardous accord Regulations.

SECTION 3: Composition / Information on Ingredients

3.1 Substances

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

3.2

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-propa nediol	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	S:
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/sympto	ms:
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 emergen	cy measures
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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
	Post PCR Primer (25 μM, for Illumina)	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).

6.2 Environmental Precautions:

Post PCR Master Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways,
Post PCR Primer (25 μM, for Illumina)	drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up:

Post PCR Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and
Post PCR Primer (25 μM, for Illumina)	mop up. Dispose of via a licensed waste disposal contractor.

SECTION 7: Handling and Storage

7.2

7.1 Precautions for safe handling - Protective measures:

Post PCR Master Mix	Put on appropriate personal protective equipment (see Section 8). Do not ingest Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Post PCR Primer (25 µM, for Illumina)	Put on appropriate personal protective equipment (see Section 8).

Post PCR Master Mix	Store in accordance with local regulations. Store in original container protected	
	Post PCR Master Mix	from direct sunlight in a dry, cool and well-ventilated area, away from
Post PCR Primer (25 μM, for Illumina)		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.

Industrial applications, Professional applications.

7.3 Specific end use(s) recommendations:

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

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, loca 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.	
Personal protective equipment for the body should be selected based on the task performed and the risks involved and should be approved by a specialist before this product.Generally, it is recommended to wear a white coat, disposable head 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
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Physical State:	
Post PCR Master Mix	Liquid
Post PCR Primer (25 μM, for Illumina)	Liquid

9.2 Colour:

Post PCR Master Mix Coulourless

Post PCR Primer (25 $\mu\text{M},$ for Coulourless Illumina)

7.5

9.3	Odour:	
	Post PCR Master Mix	Irritating Odour
	Post PCR Primer (25 μM, for Illumina)	Odourless
9.4	Odour threshold:	
	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A
9.5	pH:	
	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	7.
9.6	Melting/Freezing point:	
	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	0°C
9.7	Initial boiling point and boiling	
	range: Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for	
	Illumina)	100°C
9.8	Flash point:	51/4
	Post PCR Master Mix Post PCR Primer (25 μM, for	N/A
	Illumina)	N/A
9.9	Evaporation rate:	
	Post PCR Master Mix Post PCR Primer (25 μM, for	N/A
	Illumina)	N/A
9.1	Flammability:	
	Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for Illumina)	N/A
9.11	Upper/lower flammability or	
	explosive limits: Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for	
	Illumina)	N/A
9.12	Vapour pressure:	
	Post PCR Master Mix	The main component of the reagent is water. At 20 °C, the steam pressure of
	Post PCR Primer (25 μM, for	water is 3.2kPa. At 50 °C, the vapor
	Illumina)	pressure of water is 12.3 kPa.
9.13	Vapour density	NI / A
	Post PCR Master Mix Post PCR Primer (25 μM, for	N/A
	Illumina)	N/A
9.14	Relative vapour density (air=1):	
	Post PCR Master Mix Post PCR Primer (25 μM, for	N/A
	Illumina)	N/A
9.15	Solubility:	
	Post PCR Master Mix	Soluble in water
	Post PCR Primer (25 µM, for Illumina)	Soluble in water
9.16	Partition coefficient (n-	
	octanol/water): Post PCR Master Mix	N/A
	Post PCR Primer (25 µM, for	
	Illumina)	N/A
9.17	Auto-ignition temperature:	

	Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A
9.18	Decomposition temperature: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A
9.19	Viscosity: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	N/A N/A
SECTION 10: S	tability 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 Post PCR Primer (25 μM, for Illumina)	Stable Stable
10.3	Possibility of hazardous reactions:	
	Post PCR Master Mix Post PCR Primer (25 μM, for Illumina)	Under normal conditions of storage and use, hazardous Ireactions will not occur.
10.4	Conditions to Avoid:	
	Post PCR Master Mix Post PCR Primer (25 μM, for	No specific data
	Illumina)	No specific data
10.5	Incompatible materials: Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	No specific data No specific data
10.6	Hazardous decomposition products:	
	Post PCR Master Mix Post PCR Primer (25 µM, for Illumina)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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-propa nediol	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-propa nediol	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 μ M, for	N/A
Illumina)	14/4
Reproductive toxicity:	
Post PCR Master Mix	N/A
Post PCR Primer (25 μM, for	N/A
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 μ M, for	N/A
Illumina)	14/5
Aspiration hazard:	
Post PCR Master Mix	N/A
Post PCR Primer (25 μ M, for	N/A
Illumina)	1.7

SECTION 12: Ecological Information Toxicity

12.1

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-propa nediol	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

The generation of waste should be avoided or minimised wherever possible. 13.1 Waste treatment methods: 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

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 Precautions for transportation : 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	
International	Metals	Not listed.
	Regulation (EC) No 1907/2006 of the	All components
Europe	European Parliament and of the Council	are not listed in
	(REACH)	the list.
United States	Toxic Substances Control Act (TSCA)	Not listed.
		All components
United States	TSCA Chemical Substance Inventory	are not listed in
		the list. All components
Japan	Act on the Evaluation of Chemical	are not listed in
	Substances and	the list.
	Regulation of Their Manufacture, etc.	the list.
Turkey	Regulation on the Export and Import	
	of Certain	are not listed in
	Hazardous Chemicals	the list.
	Regulation of Registration,	All components
Turkey	Evaluation, Authorization, and	are not listed in
	Restriction of Chemicals (KKDIK)	the list.
China	Inventory of the Existing Chemical	All components
cima	Substances in China	are listed or
	(IECSC)	exempted.
	Provisions on Environmental	
China	Administration of New	
	Chemical Substances	Not listed.
	Regulations on Safe Management of	Not listed.
Chiles.		
China	Hazardous	
	Chemicals in China	Not listed.
China		All components
Ciiiia		are not listed in
	Catalog of Hazardous Chemicals	the list.
		All components
China	Catalog of Coods Drahibits of from	
	Catalog of Goods Prohibited from	are not listed in
	Import	the list.
China		All components
China	Catalog of Goods Prohibited from	are not listed in
	Export	the list.
1		All components
China	China Investory of Court	
1	China Inventory of Severely	are not listed in
	Restricted Toxic Chemicals	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.