

## 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 (Modul	le A)
Cat. No.	EG1301S	
Specification	16rxn	
Component Cat. No.	EG130101S	Hyb Human Block
	EG130102S	RNase Block
	EG130103S	Hyb Buffer

#### 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.
Mixture supplied to that use in form of:	A mixture
Product Category by type of chemical:	Analytical reagent

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

	Edinburgh Genetics Limited
Address:	Pentlands Science Park,
Address.	Penicuik, United Kingdom
	EH26 OPZ
Telephone Number:	+44 1312616686
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1.4 Emergency Telephone: +44 1312616686

## **SECTION 2: Hazards Identification**

2.1.1

2.1.3

2.1 Classification of the mixture Emergency Overview

**GHS Hazard Category** 

Hyb Human Block	Colourless, Liquid. No known significant
RNase Block	Colourless, Liquid. No known significant
Hyb Buffer	Colourless, Liquid. H316-Causes mild skin irritation. H402-Harmful to aquatic life.

2.1.2	Classification according to Regulation (EC) No 1272/2008 (including amendments):	Hyb Human Block	Not classified
		RNase Block	Not classified
		Hyb Buffer	Skin corrosion/irritation-Category 3Hazardous to aquatic environment, short-term (Acute)-Category 3

Hyb Human Block	Not classified
RNase Block	Not classified
Hyb Buffer	H316-Causes mild skin irritation. ——Skin corrosion/irritation-Category 3 H402-Harmful to aquatic life. ——Hazardous to aquatic environment, short-term (Acute)-Category 3

#### 2.2 Label elements:

Hazard Pictogram:	Hyb Human Block	None
	RNase Block	None
	Hyb Buffer	None
Signal word:	Hyb Human Block	No signal word
	RNase Block	No signal word
	Hyb Buffer	Warning

Hazard statements:	Hyb Human Block	No known significant effects or critica
	RNase Block	No known significant effects or critical
	Hyb Buffer	H316-Causes mild skin irritation. H402-Harmful to aquatic life.
Prevention:	Hyb Human Block	N/A
	RNase Block	N/A
	Hyb Buffer	P273-Avoid release to the environmen
Disposal:	Hyb Human Block	N/A
Disposal.	RNase Block	170
	Hyb Buffer	P501-Dispose of contents/containers according to local/regional/national/international regulations.
Storage:	Hyb Human Block	N/A
Storuge.	RNase Block	N/A
	Hyb Buffer	N/A

SECTION 3: Composition / Information on Ingredients

Substances

/ intornation on	ingreatents	
	Hyb Human Block	Mixture
	RNase Block	Mixture
	Hyb Buffer	Mixture

#### 3.2 Composition

2.3

3.1

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Proportion	Identifiers	EC Number
Hyb Human Block			
No ingredients harmful to health or environment.			
RNase Block			
No ingredients harmful to health or environment.			
Hyb Buffer			
Ethylene Diamine Tetraacetic Acid	10 to 25	EC: 200-449-4 CAS: 60-00-4	Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Chronic 3, H412 STOT SE 3, H335
Dodecyl Sodium Sulfonate	<2.5	EC: 219-200-6 CAS: 2386-53-0	No hazards have been classified.

# **SECTION 4: First-Aid Measures**

Description of First Aid Measures 4.1

### Inhalation:

Hyb Human Block RNase Block	Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.
Hyb Buffer	Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Ingestion:	
Hyb Human Block	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
RNase Block	the lungs. Get medical attention if adverse health effects persist or are severe.

Hyb Buffer	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:	
Hyb Human Block	Flush contaminated skin with plenty of water. Remove contaminated clothing and
RNase Block	shoes. Get medical attention if adverse health effects persist or are severe.
Hyb Buffer	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:	
Hyb Human Block	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation
RNase Block	occurs.
Hyb Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lowereyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

First Aider Protection: None specific

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

Potential acute health effects:	
Hyb Human Block	No known significant effects or critical hazards.
RNase Block	No known significant effects or critical hazards.
Hyb Buffer	Causes mild skin irritation. Causes eye irritation.
Over-exposure signs/sympton	ns:
Hyb Human Block	No specific data.
RNase Block	No specific data.
Hyb Buffer	Skin irritation and redness. Eye pain or irritation, tears and redness.

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

Specific Treatments	
Hyb Human Block	None Specific
RNase Block	None Specific
Hyb Buffer	None Specific
Notes to Physician	
Hyb Human Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
RNase Block	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Hyb Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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.
	Avoid:	None
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 person	inel:
Hyb Human Block		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.
	RNase Block	Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
	Hyb Buffer	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:

Hyp Human Block	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
RNase Block	involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk
Hyb Buffer	through spilt material. Put on appropriate personal protective equipment (see Section 8).

6.2	Environmental Precautions:			
	Hyb Human Block	Avoid dispersal of spilled material and run	off and contact with s	oil, waterways, drains
	RNase Block	and sewers. Inform the relevant authoritie	es if the product has c	aused environmental
	Hyb Buffer	pollution (sewers, waterways, soil or air).		

### Hyb Human Block RNase Block Hyb Buffer

6.3

7.1

# SECTION 7: Handling and Storage

Precautions for safe handling		
Hyb Human Block	Dut en envenziete nersenel avetestive equipment (see Section 9)	
RNase Block	Put on appropriate personal protective equipment (see Section 8).	
Hyb Buffer	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.	

up. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop

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

Methods and materials for containment and cleaning up:

Hyb Human Block	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
RNase Block	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
Hyb Buffer	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:

 Hyb Human Block

 RNase Block

 Hyb Buffer

# SECTION 8: Exposure Controls/Personal Protection

8.	1	

Control Parameters Product/ingredient name Component in the Kit Exposure limit values			
Hyb Human Block	N/A	N/A	
RNase Block	N/A	N/A	
Hyb Buffer	N/A	N/A	

### 8.2 Exposure 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:	
Hyb Human Block	Liquid
RNase Block	Liquid
Hyb Buffer	Liquid

## 9.2 Colour:

Colour:	
Hyb Human Block	Coulourless
RNase Block	Coulourless
Hyb Buffer	Slightly yellow.

### 9.3 0

Hyb Human Block	Odourless
RNase Block	Odourless
Hyb Buffer	Irritating odour

### 9.4 Odour threshold:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.5

Hyb Human Block		7.5
RNase Block	N/A	
Hyb Buffer	7.9 +/- 0.3	

### 9.6 Melting/Freezing point:

Hyb Human Block	0°C
RNase Block	N/A
Hyb Buffer	N/A

# 9.7 Initial boiling point and boiling

range:	
Hyb Human Block	100°C
RNase Block	N/A
Hyb Buffer	N/A

## 9.8 Flash point:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.9 Evaporation rate:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

## 9.1 Flammability:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

### 9.11 Upper/lower flammability or explosive limits:

explosive limits:	
Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

#### 9.12 Vapour pressure:

Hyb Human Block	The main component of the reagent is water. At 20 °C, the steam pressure of
RNase Block	water is 3.2 kPa. At 50 °C, the vapor pressure of water is 12.3 kPa.
Hyb Buffer	N/A

#### Vapour density 9.13

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

#### 9.14 Relative vapour density (air=1):

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

#### 9.15 Solubility:

Hyb Human Block	Soluble in water
RNase Block	Soluble in water
Hyb Buffer	Soluble in water

#### Partition coefficient (n-9.16

octanol/water):	
Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

#### 9.17 Auto-ignition temperature:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

#### 9.18 Decomposition temperature:

Hyb Human Block	N/A
RNase Block	N/A
Hyb Buffer	N/A

#### Viscositv: 9.19

N/A
N/A
N/A

# SECTION 10: Stability and Reactivity

#### 10.1 Reactivity:

Hyb Human Block	Stable
RNase Block	Stable
Hyb Buffer	Stable

#### 10.2 Chemical stability:

Hyb Human Block	Stable
RNase Block	Stable
Hyb Buffer	Stable

#### 10.3 Possibility of hazardous reactions:

Hyb H	luman Block	Under normal conditions of storage and use, hazardous lreactions will not occur.
RNas	e Block	
Hyb E	Suffer	use, nazaruous neactions will not occur.

#### 10.4 Conditions to Avoid:

Hyb Human Block	
RNase Block	No specific data
Hyb Buffer	

#### 10.5 Incompatible materials:

Hyb Human Block	
RNase Block	No specific data
Hyb Buffer	

#### Hazardous decomposition 10.6

products:

Hyb Human Block	Under normal conditions of storage and
RNase Block	use, hazardous Idecomposition products
Hyb Buffer	should not be produced.

# SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Hyb Human Block				
No ingredients harmful to health or environment.				
RNase Block				
No ingredients harmful to health or environment.				
Hyb Buffer				
Ethylene Diamine Tetraacetic Acid	LD50 Oral	Rat	2g/kg	/
Dodecyl Sodium Sulfonate	LD50 Oral	Rat	1288 mg/kg	/

### 11.2 Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
Hyb Human Block			
No ingredients harmful to health or environment.			
RNase Block			
No ingredients harmful to health or environment.			
Hyb Buffer			
Ethylene Diamine Tetraacetic Acid	N/A	N/A	N/A
Dodecyl Sodium Sulfonate	N/A	N/A	N/A

### 11.3 Senitiser

Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

### 11.4 Mutagenicity:

Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

# 11.5 Carcinogenicity:

Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

### 11.6 **Reproductive toxicity:**

Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

# 11.7 Specific target organ toxicity

(single exposure).	
Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

# 11.8 Specific target organ toxicity

(repeated exposure):	
Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

### 11.9 Aspiration hazard:

Hyb Human Block	
RNase Block	N/A
Hyb Buffer	

## SECTION 12: Ecological Information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hyb Human Block			
No ingredients harmful to health or			
environment.			
RNase Block			
No ingredients harmful to health or			
environment.			
Hyb Buffer			

	Ethylene Diamine Tetraacetic Acid	Acute LC50 320 mg/L Fresh water	Fish	96h	
	Dodecyl Sodium Sulfonate	N/A	N/A	N/A	
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**

	UN number	UN proper shipping name	Transport hazard class(es)	Transport hazard symbol	Environmental hazards	Packing group
ADR/RID	UN3316	CHEMICAL KIT	9		No.	Ш
IATA	UN3316	Chemical kit	9	- Inder and the second se	No.	н
IMDG	UN3316	CHEMICAL KIT	9	- Ś	No.	Ш

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

	China Inventory of Severely Restricted Toxic	All components are
China	Chemicals	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.