



SAFETY DATA SHEET

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

Rev A3: 11/08/2023

SECTION 1: Identification of the Substance and Company/Undertaking

1.1 Product Identifier

Product name: egSEQ Hyb & Wash Kit (Module B)
Cat. No. EG1302S
Specification 16rxn
Component Cat. No. EG130201S Binding Buffer
EG130202S Wash Buffer 1
EG130203S Wash Buffer 2

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

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

Wash Buffer 1	Colourless, Liquid. No known significant effects or critical hazards.
Binding Buffer	
Wash Buffer 2	

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

Wash Buffer 1	No known significant effects or critical hazards.
Binding Buffer	
Wash Buffer 2	

2.1.3 GHS Hazard Category

Wash Buffer 1	No known significant effects or critical hazards.
Binding Buffer	
Wash Buffer 2	

2.2 Label elements:

Hazard Pictogram:

Wash Buffer 1	None
Binding Buffer	
Wash Buffer 2	

Signal word:

Wash Buffer 1	No signal word
Binding Buffer	
Wash Buffer 2	

Hazard statements:

Wash Buffer 1	No known significant effects or critical hazards.
Binding Buffer	

Wash Buffer 2	
---------------	--

Prevention:	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	

Response:	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	

Disposal:	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	

Storage:	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	

2.3 **Other Hazards:** N/A

SECTION 3: Composition / Information on Ingredients

3.1 Substances	Wash Buffer 1	Mixture
	Binding Buffer	Mixture
	Wash Buffer 2	Mixture

3.2 **Composition**

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Proportion	Identifiers	EC Number
Wash Buffer 1	<0.2	EC: 219-200-6 CAS: 2386-53-0	No hazards have been classified.
Dodecyl Sodium Sulfonate			
Binding Buffer			
Sodium chloride	<10	EC: 231-598-3 CAS: 7647-14-5	Eye Irrit. 2, H319
Wash Buffer 2			
Dodecyl Sodium Sulfonate	<0.2	EC: 219-200-6 CAS: 2386-53-0	No hazards have been classified.

SECTION 4: First-Aid Measures

4.1 **Description of First Aid Measures**

Inhalation:

Wash Buffer 1
Binding Buffer
Wash Buffer 2

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

Ingestion:

Wash Buffer 1
Binding Buffer
Wash Buffer 2

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:

Wash Buffer 1
Binding Buffer
Wash Buffer 2

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

Eye Contact:

Wash Buffer 1
Binding Buffer
Wash Buffer 2

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 occurs.

First Aider Protection: None specific

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

Potential acute health effects:

Wash Buffer 1	No known significant effects or critical hazards.
Binding Buffer	No known significant effects or critical hazards.
Wash Buffer 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Wash Buffer 1	No specific data.
Binding Buffer	No specific data.
Wash Buffer 2	No specific data.

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

Wash Buffer 1	None Specific
Binding Buffer	None Specific
Wash Buffer 2	None Specific

Notes to Physician

Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Binding Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Wash Buffer 2	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.

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 personnel:**

Wash Buffer 1	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).
Binding Buffer	
Wash Buffer 2	

6.1.2 For emergency responders:

Wash Buffer 1	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).
Binding Buffer	
Wash Buffer 2	

6.2 Environmental Precautions:

Wash Buffer 1	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).
Binding Buffer	
Wash Buffer 2	

6.3 Methods and materials for containment and cleaning up:

Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Dispose of via a licensed waste disposal contractor.
Binding Buffer	
Wash Buffer 2	

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
Binding Buffer	
Wash Buffer 2	

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

Wash Buffer 1	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.
Binding Buffer	
Wash Buffer 2	

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

Wash Buffer 1	Industrial applications, Professional applications.
Binding Buffer	
Wash Buffer 2	

SECTION 8: Exposure Controls/Personal Protection

8.1 **Control Parameters**

Product/ingredient name	Component in the Kit	Exposure limit values
Wash Buffer 1	N/A	N/A
Binding Buffer	N/A	N/A
Wash Buffer 2	N/A	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:

Wash Buffer 1	Liquid
Binding Buffer	Liquid
Wash Buffer 2	Liquid

9.2 **Colour:**

Wash Buffer 1	Colourless
Binding Buffer	Colourless
Wash Buffer 2	Colourless

9.3 **Odour:**

Wash Buffer 1	Odourless
Binding Buffer	Odourless
Wash Buffer 2	Odourless

9.4 **Odour threshold:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.5 **pH:**

Wash Buffer 1	7.4 +/- 0.3
Binding Buffer	7.6 +/- 0.3
Wash Buffer 2	7.6 +/- 0.3

9.6 **Melting/Freezing point:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.7 **Initial boiling point and boiling range:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.8 **Flash point:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.9 **Evaporation rate:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.1 **Flammability:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

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

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.12 **Vapour pressure:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.13 **Vapour density**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

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

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.15 **Solubility:**

Wash Buffer 1	Soluble in water
Binding Buffer	Soluble in water
Wash Buffer 2	Soluble in water

9.16 **Partition coefficient (n-octanol/water):**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.17 **Auto-ignition temperature:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.18 **Decomposition temperature:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

9.19 **Viscosity:**

Wash Buffer 1	N/A
Binding Buffer	N/A
Wash Buffer 2	N/A

SECTION 10: Stability and Reactivity

10.1	Reactivity:	
	Wash Buffer 1	Stable
	Binding Buffer	Stable
	Wash Buffer 2	Stable
10.2	Chemical stability:	
	Wash Buffer 1	Stable
	Binding Buffer	Stable
	Wash Buffer 2	Stable
10.3	Possibility of hazardous reactions:	
	Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	Binding Buffer	
	Wash Buffer 2	
10.4	Conditions to Avoid:	
	Wash Buffer 1	No specific data
	Binding Buffer	
	Wash Buffer 2	
10.5	Incompatible materials:	
	Wash Buffer 1	No specific data
	Binding Buffer	
	Wash Buffer 2	
10.6	Hazardous decomposition products:	
	Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Binding Buffer	
	Wash Buffer 2	

SECTION 11: Toxicological Information

11.1	Information on toxicological effects				
	Acute toxicity:				
	Product/ingredient name	Result	Species	Dose	Exposure
	Wash Buffer 1				
	Dodecyl Sodium Sulfonate	LD50 Oral	Rat	1288 mg/kg	/
	Binding Buffer				
	Sodium chloride	LC50 Inhalation Dusts and mists	Rat	>42 g/m ³	1h
		LD50 Oral	Rat	3000 mg/kg	/
	Wash Buffer 2				
	Dodecyl Sodium Sulfonate	LD50 Oral	Rat	1288 mg/kg	/
11.2	Irritation/Corrosion				
	Product/ingredient name	Result	Species	Exposure	
	Wash Buffer 1				
	Dodecyl Sodium Sulfonate	N/A	N/A	N/A	
	Binding Buffer				
	Sodium chloride	Eyes - Moderate irritant	Rabbit	24 h 100 mg	
		Skin - Mild irritant	Rabbit	24 h 500 mg	
	Wash Buffer 2				
	Dodecyl Sodium Sulfonate	N/A	N/A	N/A	
11.3	Senitiser				
	Wash Buffer 1	N/A			
	Binding Buffer				
	Wash Buffer 2				
11.4	Mutagenicity:				
	Wash Buffer 1	N/A			
	Binding Buffer				
	Wash Buffer 2				
11.5	Carcinogenicity:				
	Wash Buffer 1	N/A			
	Binding Buffer				
	Wash Buffer 2				
11.6	Reproductive toxicity:				
	Wash Buffer 1	N/A			
	Binding Buffer				
	Wash Buffer 2				

11.7	Specific target organ toxicity (single exposure):	
	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	
11.8	Specific target organ toxicity (repeated exposure):	
	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	
11.9	Aspiration hazard:	
	Wash Buffer 1	N/A
	Binding Buffer	
	Wash Buffer 2	

SECTION 12: Ecological Information

12.1 Toxicity



Product/ingredient name	Result	Species	Exposure
Wash Buffer 1			
Dodecyl Sodium Sulfonate	N/A	N/A	N/A
Binding Buffer			
Sodium chloride	Acute EC50 2430000 µg/L Fresh water	Algae - Navicula seminulum	96h
	Acute EC50 28.85 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72h
	Acute EC50 519.6 mg/L Fresh water	Crustaceans - Cypris subglobosa	48h
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96h
	Acute LC50 1661 mg/L Fresh water	Daphnia - Daphnia magna	48h
	Acute LC50 1000000 µg/L Fresh water	Fish - Morone saxatilis - Larvae	96h
	Chronic LC10 781 mg/L Fresh water	Hylaella azteca; Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96h
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21d
	Chronic NOEC 100 mg/L Fresh water	Fish - Gambusia holbrooki -Adult	8 weeks
Wash Buffer 2			
Dodecyl Sodium Sulfonate	x	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.	II
IATA	UN3316	Chemical kit	9		No.	II



- 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 (KKDİK)	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.