

SAFETY DATA SHEET

According to Regulations (EC) No. 1272/2008, (EU) No. 453/2010, (EU) No. 2015/830, (EU) 2020/878, (EU) 2024/2865

IQ Ery Perm Kit

Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: IQ Ery Perm Kit Product code: IOP-340

REACH No.: A registration number is not availa

A registration number is not available for this mixture as the mixture or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is

envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use: This product is intended for fixation and permeabilization of

erythrocytes in order to prepare these cells for (intracellular) staining and subsequent analysis by flow cytometry(for

Research Use Only).

Uses advised against: Not for use in humans.

Not for in vivo use.

Not for use other than those indicated above.

1.3 Details of the supplier of the safety data sheet

Company: IQ PRODUCTS BV Adress: Rozenburglaan 13a

9727 DL GRONINGEN THE NETHERLANDS

Telephone: +31-50-5757000

E-mail address: marketing@iqproducts.nl **Website:** www.iqproducts.nl

1.4 Emergency telephone numbers

Emergency Phone # 112

2. Hazard Identification

The IQ Ery Perm Kit is available as a 50 tests kit. The product is composed of a set of reagents, i.e. Reagent A, B, and C. All reagents are liquids containing the ingredients as presented below.

There are no reported further health hazards for the product in the current formulation and applications. Only Reagent B of the product composition does contain a dangerous substance in amounts that need to be hazard labeled according to EC Regulation No. 1272/2008 and (EU) 2024/2865. All other components of the product contain substances that may be hazardous when available in significant amounts and should be treated as potentially biohazardous.

Component	Content	Quantity
Reagent A	Fixative solution (A)	5 ml
Reagent B	Fixative solution (B);	5 ml
Reagent C	Permeabilization solution (C);	5 ml

SDS-IQP-340-EN Version 1/ Revised Date: June 2025 Page 1 of 8

2.1 Classification of the substance or mixture

Acute toxicity – category 3 (H331, H311, H301) Carcinogenicity - category 2 (H351) Skin sensitivity - category 1 (H317)

2.2 Label elements



Hazard Statements (GHS_US): Reagent B:

H302 Harmful if swallowed;

H315 Causes skin irritation;

H317 May cause an allergic skin reaction;

H318 Causes serious eve damage:

H332 Harmful if inhaled:

H335 May cause respiratory irritation;

H351 Suspected of causing cancer;

Precautionary Statements (GHS-US): Reagent B:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray;

P280 Wear protective gloves/protective clothing/eve protection/face protection:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing;

General

P270 Do not eat, drink or smoke when using this product;

P262 Do not get in eyes, on skin, or on clothing;

P337+P313 If eye irritation persists: Get medical advice/attention;

P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3 Other Hazards

All reagents should be handled in accordance with good laboratory practices using appropriate precautions. In addition, handle all patient samples with appropriate precautions as described in "Biosafety in Microbial and Biomedical Laboratories", 6th ed., 2020. HHS Publication No. (CDC) 300859, Centers for Disease Control.

There are no reported further health hazards for the product in the current formulation and applications. The product contain substances that may be hazardous when available in significant amounts and should be treated as potentially biohazardous. No toxic effects are to be expected when the product is handled appropriately. The product may enter the body through inhalation, ingestion, skin contact and eye contact.

Sodium azide forms explosive compounds with heavy metals. Components of this product contain azide < 0,1% (w/v). Repeated contact of these components with lead and copper, commonly found in plumbing drains, should be avoided as this may result in the buildup of shock-sensitive compound. On disposal, flush with large amounts of water to prevent azide build-up.

3. Composition/Information on ingredients

3.1 Substances

Not applicable.

SDS-IQP-340-EN Version 1/ Revised Date: June 2025 Page 2 of 8

3.2 Mixtures

Composition of the product:

CAS/EC-no.	Chemical name	Content	Classification CLP according to Regulation (EC) No 1272/2008 (CLP)	
-			Hazard Class and	Hazard
			Category Code(s)	statement
Reagent A				
26628-22-8	Fetal Bovine Serum (FBS)	99.91% (v/v)	N/A	N/A
26628-22-8	Sodium Azide	0.09% (v/v)	Not applicable concentration according to (EU) No. 2020/	
Reagent B				
50-00-0	Formaldehyde	6.0 % (w/v)	Carc. 2 Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Sens. 1	H351 H331 H311 H301 H317
14431-43-7	Glucose	5.96 % (w/v)	N/A	N/A
6138-23-4	Trehalose	7.56 % (w/v)	N/A	N/A
1310-73-2	Sodium hydroxide	0.43 % (w/v)	Not applicable concentration limit ≥ 1 % according to (EU) No. 2020/878.	
10049-21-5	Sodiumdihydrogen phosphate monohydrate (NaH ₂ PO ₄)	1.88 % (w/v)	N/A	N/A
Reagent C				<u> </u>
N/A*	Phosphate buffered Saline (10x)	10.0 % (v/v)	See below	See below
9005-49-6	Heparin	0.2 % (v/v)	N/A	N/A
151-21-3	Sodium Dodecyl Sulfate	0.3 % (v/v)	N/A	N/A

^{*} Phosphate Buffered Saline (10x) is produced in-house - composition of this component is shown here:

CAS/EC-no	Chemical Name	Content	Hazard Class and	Hazard
		[(%) w/v]	Category Code(s)	statement
N/A	Deminiralized water	89.60	N/A	N/A
7647-14-5	Sodium chloride	8.75	N/A	N/A
10028-24-7	Sodium phosphate dibasic dihydrate	1.41	N/A	N/A
7778-77-0	Potassium dihydrogen phosphate	0.24	N/A	N/A

4. First-aid Measures

4.1 Description of first aid measures

Inhalation: Expose to fresh air. If breathing problems persist seek medical advice. Skin Contact: Wash with plenty of water for 15 minutes. Remove contaminated clothing.

Seek medical advice.

Eye Contact: Rinse with water for 15 minutes and seek medical advice.

SDS-IQP-340-EN Version 1/ Revised Date: June 2025 Page 3 of 8

Ingestion: Rinse mouth with water for 15 minutes and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that over exposure to materials other than this product may have occurred. Also see above under section 4.1.

5. Fire-fighting Measures

5.1 Extinguishing media

Extinguishing Media: Use carbon dioxide, dry chemical extinguisher or water.

Protective Equipment: An approved self-contained breathing apparatus and protective

clothing should be used.

Special Fire and Explosion Hazards: No special hazards determined.

Hazard Combustion Products: Due to the composition and volume of this product, combustion

products generated from it are not expected to present a

significant hazard.

5.2 Special hazards arising from the substance or mixture

No special hazards determined.

5.3 Advice for firefighters

This product does not cause special protective equipment to be required. In the event of a large laboratory fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire-exposed containers cool. Poisonous gases may be produced in fires.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use universal precautions, appropriate personal protective equipment and standard safe laboratory practices to clean up spilled substance promptly. Absorb spill onto an appropriate material. Avoid contact with eyes, skin and clothing. Wear safety glasses and protective gloves.

6.2 Environmental Precautions

No known environmental precautions.

6.3 Methods and Material for Containment and Cleaning Up

Soak up spills with an appropriate absorbent material. Consult local, state, or federal regulations for proper disposal.

6.4 Reference to Other Sections

Follow protective measures provided in Sections 7, 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

All reagents should be handled in accordance with good laboratory practices using appropriate precautions:

- No eating, drinking, or smoking in work areas
- Wash hands after use
- Remove contaminated clothing and protective equipment before leaving work area
- Avoid inhaling, ingesting, and contact with eyes and skin.

In addition, this product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

All components of the Fetal Cell Count[™] kit are stable if stored according to appropriate conditions until the expiration date as indicated on the label and on each component provided. Storage conditions recommended: 2 to 8 °C. Protect the kit from temperatures above 30°C and from prolonged time at room temperature. Do not freeze. Avoid direct sunlight.

7.3 Specific End Use(s)

SDS-IQP-340-EN Version 1/ Revised Date: June 2025 Page 4 of 8

8. Exposure controls/personal protection

8.1 Control parameters

The product does not contain any materials that need to be monitored at the workplace.

8.2 Exposure controls

Universal precautions should be followed when using this product.

Wear appropriate personal protective equipment and follow safe laboratory practices.



Pictograms:

Respiratory: None required when product is used as recommended

Hands: Wear protective gloves according to EN 166 Eye / Face: Wear safety glasses according to EN 374

Skin / Body: None required

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Reagent A			
Physical state:	Colour:	Odour:	Melting/freezing point:
Liquid, clear	Light yellow	No data available	No data available
Initial boiling point and range:	Flammability:	Lower and upper explosion limit:	Flash point:
Not applicable	No data available	No data available	Not applicable
Auto-ignition temperature:	Decomposition temperature:	pH:	Kinematic viscosity:
Not self-igniting	Not applicable	5,4 - 5,6	No data available
Solubility:	Partition coefficient n-octanol/water:	Vapour pressure:	(relative) density:
Fully miscible in water	No data available	Not applicable	Not applicable
Relative vapour density:	Particle characteristics:	Explosive properties	Oxidizing properties
Not applicable	Not applicable	Not explosive	Not oxidizing

Reagent B			
Physical state:	Colour:	Odour:	Melting/freezing point:
Liquid, clear	Colourless	No data available	No data available
Initial boiling point and range:	Flammability:	Lower and upper explosion limit:	Flash point:
Not applicable	No data available	No data available	Not applicable
Auto-ignition temperature:	Decomposition temperature:	pH:	Kinematic viscosity:
Not self-igniting	Not applicable	5,4 - 5,6	No data available
Solubility:	Partition coefficient n-octanol/water:	Vapour pressure:	(relative) density:
Fully miscible in water	No data available	Not applicable	Not applicable
Relative vapour density:	Particle characteristics:	Explosive properties	Oxidizing properties
Not applicable	Not applicable	Not explosive	Not oxidizing

Reagent C			
Physical state:	Colour:	Odour:	Melting/freezing point:
Liquid, clear	Light white	No data available	No data available
Initial boiling point and range:	Flammability:	Lower and upper explosion limit:	Flash point:
Not applicable	No data available	No data available	Not applicable
Auto-ignition	Decomposition	pH:	Kinematic viscosity:

SDS-IQP-340-EN Version 1/ Revised Date: June 2025 Page 5 of 8

temperature:	temperature:		
Not self-igniting	Not applicable	5,4 - 5,6	No data available
Solubility:	Partition coefficient n-octanol/water:	Vapour pressure:	(relative) density:
Fully miscible in water	No data available	Not applicable	Not applicable
Relative vapour density:	Particle characteristics:	Explosive properties	Oxidizing properties
Not applicable	Not applicable	Not explosive	Not oxidizing

9.2 Other information

No other physical and chemical parameters are applicable relevant to the safe use the $\ensuremath{\mathsf{IQ}}$ Ery Perm kit.

10. Stability and Reactivity

10.1 Reactivity

No known reactivity.

10.2 Chemical stability

The product is stable under ambient storage and handling temperatures and under normal pressures.

10.3 Possibility of hazardous reactions

No hazardous reactions known when handled properly.

10.4 Conditions to avoid

None identified.

10.5 Incompatible materials

Metals and metallic compounds. Strong acids, strong oxidizing agents, powdered metals and reducing agents. Sodium azide forms explosive compounds with heavy metals. Components of this product contain azide < 0.1% (w/v). Repeated contact of these components with lead and copper, commonly found in plumbing drains, should be avoided as this may result in the buildup of shock-sensitive compound. No hazardous incompatibilities identified.

10.6 Hazardous decomposition products

No hazardous decomposition products are known to be formed by this product.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity: No toxic effect known.

Skin corrosion/irritation: No irritant effect known. **Serious eye damage/irritation:** No irritant effect known. **Respiratory or skin sensitization:** No sensitizing effect known.

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available STOT-single exposure: No data available STOT-repeated exposure: No data available

Aspiration hazard: Not Classified

11.2 Information on other hazards

No other information on adverse health effects are identified relevant to the safe use of the $IQ\ Ery\ Perm^{m}\ kit.$

12. Ecological information

12.1 Toxicity

Undetermined.

12.2 Persistence and degradability

Undetermined.

12.3 Bioaccumulative potential

Undetermined.

12.4 Mobility in soil

Undetermined.

12.5 Results of PBT and vPvB assessment

Undetermined.

12.6 Endocrine disrupting properties

Undetermined.

12.7 Other adverse effects

No adverse effects are known when handled and disposed properly.

13. Disposal considerations

13.1 Waste treatment methods

Product:

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advice you on how to dispose of special waste.

Contaminated Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

14.1 UN Number or ID Number

Not determined.

14.2 UN proper shipping name

Not determined.

14.3 Transport hazard class(es)

Not determined.

14.4 Packing group

Not determined.

14.5 Environmental hazards

Not classified.

14.6 Special precautions for users

See subsections 6-8 and 13.

14.7 Maritime transport in bulk according to IMO instruments

This product is provided only in non-bulk containers.

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the substance or mixture

SARA Section 311/312 Hazard Classes are not applicable. This product is not classified. To the best of our knowledge, safety, health, and environmental regulations according to Regulation (EC) No. 1907/2006-REACH are not applicable.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

Changes to the previous version

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910:1200 and complies with Regulation (EC) No. 1272/2008, (EU) No. 453/2010, (EU) No. 2015/830, (EU) 2020/878 and (EU) 2024/2865.

Current version	Revision 1.0, June 2025
Previous version	No, first version
Changes	N/A
Justification	N/A

Literature References

Regulation (EC) No. 1907/2006 Regulation (EC) No. 1272/2008 Regulation (EU) No. 453/2010 Regulation (EU) No. 2015/830 Regulation (EU) No. 2020/878 Regulation (EU) No. 2024/2865

Disclaimer/Statement of Liability

The information presented in this Safety Data Sheet is based on the present state of our knowledge. The product should be used according to the instructions provided by the manufacturer, see "Instructions for use" as presented in the package insert accompanying every product. We make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The product should be used according to the instructions provided by the manufacturer, see "instructions for use" as presented in the Package Insert accompanying every product. *IQ Products BV* nor any distributors thereof shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the product.

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SDS-IQP-340-EN Version 1/ Revised Date: June 2025 Page 8 of 8