1. Identification

1.1 Product Identifier

Product Name: Fetal Cell Count™ kit
Product Number: IQP-363
EDMA Code: 13 01 90 90
REACH No.: 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.

CAS No.: Paraformaldehyde CAS-No. 30525-89-4
Sodium Dodecyl Sulfate CAS No. 151-21-3
Sodium Azide CAS-No. 26628-22-8
Heparine CAS-No. 9005-49-6
Fluorochrome-conjugated Immunoglobulins CAS No. None assigned
Fetal Bovine Serum CAS No. None assigned
Horse Serum CAS No. None assigned

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

The Fetal cell Count™ Kit is available as a 25 tests kit. The product is composed of a set of reagents, i.e. Fetal Cell Count™ Reagent A, B, C, D, E and F. All reagents are liquid containing the ingredients as presented above. This product is intended for In vitro diagnostic use only. Not for use in humans. Not for in vivo use.

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
Fax: +31-50-5757002
E-mail address: marketing@iqproducts.nl
Website: www.iqproducts.nl

1.4 Emergency telephone numbers

Emergency Phone # 112

2. Hazard Identification

2.1 Classification of the substance or mixture

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. All other components of the product contain substances that may be hazardous when available in significant amounts and should be treated as potentially biohazardous.
Kit Components:
Reagent A: Fixative solution (A);
Reagent B: Fixative solution (B);
Reagent C: Permeabilization solution (C);
Reagent D: Washing Solution (10xD)
Reagent E: Monoclonal Antibody - FITC conjugated
Reagent F: Monoclonal Antibody - R-PE conjugated

2.2 Label elements

Hazard Pictograms (GHS-US): Reagent B: 🟢 ⚠ ⚠

Signal Word (GHS-US): Reagent B: DANGER

Hazard Statements (GHS-US):
Reagent B:
H302 Harmful if swallowed;
H315 Causes skin irritation;
H317 May cause an allergic skin reaction;
H318 Causes serious eye 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 smoking;
P261 Avoid breathing dust/fume/gas/mist/vapours/spray;
P280 Wear protective gloves/protective clothing/eye 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;
P380 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”, 2nd ed., 1988. HHS Publication No. (CDC) 88-8395, 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.
3.2 Mixtures

Composition of the product:

<table>
<thead>
<tr>
<th>Volume</th>
<th>Reagent</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 ml</td>
<td><strong>Reagent A</strong>, Fixative Solution (A) - Containing &lt; 0.1% sodium azide</td>
<td></td>
</tr>
<tr>
<td>2.5 ml</td>
<td><strong>Reagent B</strong>, Fixative Solution (B) -buffered Formaldehyde</td>
<td></td>
</tr>
<tr>
<td>2.5 ml</td>
<td><strong>Reagent C</strong>, Permeabilization Solution (C) –containing sodium dodecyl sulfate (SDS)</td>
<td></td>
</tr>
<tr>
<td>50 ml</td>
<td><strong>Reagent D</strong>, Washing Solution (10xD), 10x concentrated - PBS containing heparin</td>
<td></td>
</tr>
<tr>
<td>1.3 ml</td>
<td><strong>Reagent E</strong>, Monoclonal antibody to human Carbonic Anhydrase conjugate with FITC, containing &lt; 0.1% sodium azide</td>
<td></td>
</tr>
<tr>
<td>1.3 ml</td>
<td><strong>Reagent F</strong>, Monoclonal antibody to human fetal hemoglobin conjugated with R-PE, containing &lt; 0.1% sodium azide</td>
<td></td>
</tr>
</tbody>
</table>

Information on ingredients:

- Parafomaldehyde: CAS-No. 30525-89-4, < 20% (w/v)
- Sodium Dodecyl Sulfate: CAS No. 151-21-3, < 0.5% (w/v)
- Sodium Azide: CAS-No. 26628-22-8, < 0.1% (w/v)
- Heparine: CAS-No. 9005-49-6, < 2.0% (v/v)
- Fluorochrome-conjugated Immunoglobulins: CAS No. None assigned
- Fetal Bovine Serum: CAS No. None assigned
- Horse Serum: CAS No. None assigned

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.
- 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 and 8.

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)
The intended use is mentioned in section 1.2 no other specific uses are stipulated.

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.

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

<table>
<thead>
<tr>
<th>Reagent A</th>
<th>Reagent B</th>
<th>Reagent C</th>
<th>Reagent D</th>
<th>Reagent E</th>
<th>Reagent F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid, clear, light yellow</td>
<td>Liquid, clear, light yellow</td>
<td>Liquid, cloudy, light white</td>
<td>Liquid, clear, colorless</td>
<td>Liquid, clear, light yellow</td>
</tr>
<tr>
<td>Odour</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
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</tr>
<tr>
<td>Odour Threshold</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
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<td>5.4 - 5.6</td>
<td>5.4 - 5.6</td>
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<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower Flammability or explosive limits</td>
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<td>No data available</td>
<td>No data available</td>
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</tr>
<tr>
<td>Vapour pressure</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour density</td>
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<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water solubility</td>
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<td>Fully miscible</td>
<td>Fully miscible</td>
<td>Fully miscible</td>
<td>Fully miscible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
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<tr>
<td>Explosive properties</td>
<td>Product is not explosive</td>
<td>Product is not explosive</td>
<td>Product is not explosive</td>
<td>Product is not explosive</td>
<td>Product is not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
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<td>Product is not oxidizing</td>
<td>Product is not oxidizing</td>
<td>Product is not oxidizing</td>
<td>Product is not oxidizing</td>
</tr>
</tbody>
</table>

9.2 Other information

No other information available.

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 toxicological effects

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
Toxicity on Repeated Exposure: No toxic effect known.
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 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
Not determined.

14.2 UN Proper Shipping Name
Not determined.

14.3 Transport Hazard Class
Not determined.

14.4 Packing Group
Not classified.

14.5 Environmental Hazards
Not classified.

14.6 Special Precautions for Users
See subsections 6-8.

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code
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) 453/2010.
Literature References
Regulation (EC) No. 1272 / 2008
Regulation (EU) No.453 / 2010

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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