

# Aquarius<sup>®</sup> Prenatal Enumeration Probes

## **Material Safety Data Sheet** (According to 1907/2006/EC, Article 31)

### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product:** LPF 001 consisting of:

**Probe set 1, Combination of X centromere probe** labelled in Green, **Y centromere probe**, labelled in Orange and **18 centromere** labelled in Blue, ready to use in hybridisation solution.

**Probe set 2, Combination of 13 unique sequence probe** labelled in Green, and **21 unique sequence probe** labelled in Orange, ready to use in hybridisation solution.

**Manufactured by:** CYTOCELL LTD.

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**Intended use:** For use in Fluorescent In Situ Hybridisation (FISH)

### **2. IDENTIFICATION OF HAZARDS**

Harmful, avoid contact with skin and inhalation  
Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hypernoea and convulsions.  
May irritate eyes, and respiratory system if inhaled as dust.

Fire and Explosion Hazard:

Combustible, May evolve toxic fumes in fire.  
Flash point 154°C

### **3. COMPOSITION/ INFORMATION ON COMPONENTS**

**Contents of kit:**

- Combined X, Y and 18 centromere probes labelled Green, Orange and Blue in Hybridisation solution
- Combined 13 and 21 unique sequence probes labelled Green and Orange in Hybridisation solution
- DAPI ES Counterstain Antifade solution

Prenatal Probe combinations in Hybridisation solution:

Contains Formamide, Dextran Sulphate, Sodium Citrate and Sodium Chloride buffer:

Formula Name: - **Formamide**

Formula: - **H.CO.NH<sub>2</sub>**

**Dextran Sulphate Sodium molecular biology reagent**

**Sodium Chloride**

**tri-Sodium Citrate**

**DAPI (4', 6- Diamidino-2-phenylindole dihydrochloride hydrate)**

**NaCl**

**Na<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>.2H<sub>2</sub>O**

**C<sub>16</sub>H<sub>15</sub>N<sub>5</sub>.2H<sub>2</sub>O**

### **4. FIRST AID MEASURES**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

In case of contact with skin, immediately wash skin with soap and copious amounts of water.

If inhaled, remove to fresh air. Rest and keep warm in severe cases obtain medical attention.

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Wash contaminated clothing before re-use.

### **5. FIRE FIGHTING MEASURES**

Extinguishing media: - Water spray, Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire fighting procedures: - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and explosions hazards: -Emits toxic fumes under fire conditions.

### **6. ACCIDENTAL RELEASE MEASURES**

Wear appropriate protective clothing.

Inform others to keep a safe distance.

If local regulations permit, mop up with plenty of water, and run to waste, diluting greatly with running water. Otherwise absorb on an inert absorbent, transfer to container and arrange removal by Disposal Company.

Ventilate area to dispel residual vapour.

For large spillages, liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

## **7. INFORMATION ON HANDLING, STORAGE, TRANSPORT AND DISPOSAL**

Handling: - Measures should be taken to avoid exposure, particularly for women of child-bearing age.

Storage: Store at -20°C and in the dark when not in use.

Transport: Product is not subject to current regulations with regard to the transportation of hazardous goods.

Disposal: Dispose of through local authorities if appropriate facilities are available; otherwise pass to a chemical disposal company.

Packaging to be disposed of in accordance with local procedures; contaminated packaging to be disposed of as product.

## **8. PERSONAL PROTECTION**

Follow procedures for the safe handling of chemicals. Only persons trained in laboratory techniques should handle this product in accordance with good laboratory practice.

All chemicals are potentially hazardous, therefore suitable protective clothing, eye protection and gloves should be worn.

Do not inhale vapours; avoid contact with eyes, skin and clothing. Thoroughly wash hands following handling.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Colourless liquid, faint odour.

Melting point 2.5°C.

Boiling point 210°C.

Specific gravity 1.13

## **10. STABILITY AND REACTIVITY**

Incompatibilities: - May react with oxidizing materials.

Hazardous combustion or decomposition products: - Toxic fumes of - Carbon monoxide, carbon dioxide, sulphur oxides.

## **11. TOXOLOGICAL INFORMATION**

Toxic by ingestion, inhalation and skin contact.

Irritating to skin and eyes.

May cause birth defects.

## **12. ECOLOGIC INFORMATION**

No data available

## **13. DISPOSAL**

Dispose of through local authorities if appropriate facilities are available; otherwise pass to a chemical disposal company.

Packaging to be disposed of in accordance with local procedures; contaminated packaging to be disposed of as product.

## **14. TRANSPORT INFORMATION**

Not subject to transport regulations

## **15. REGULATIONS**

None noted

## **16. OTHER INFORMATION**

Risk statements: - R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R61 May cause harm to the unborn child.

Safety phrases: - S20/21 When using do not eat or drink or smoke.  
S24/25 Avoid contact with eyes and skin.  
S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Information supplied above is based on our present knowledge and details the appropriate safety precautions with regard to the product. It is not a guarantee of the product and we make no warranty implied or otherwise with respect to the information and assume no liability.