



## MATERIAL SAFETY DATA SHEET (MSDS 040/94/EEC) Fetal Cell Detection Kit – Eluting Reagent

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

#### 1.1 Identification of the Preparation:

Eluting Reagent for the Fetal Cell Detection Kit also known as the Kleihauer Kit

#### 1.2 Company Identification:

Guest Medical, Enterprise Way, Edenbridge. Kent TN8 6EW

Telephone Number: **01732 867 466**

International Access Code **+44 (0) 1732 867 466**

Contact name: Roger Wakeford-Brown, Scientific Director

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

2a.1	<b>Chemical Name:</b>	Eluting Reagent. Contains methanol in a diluted form and haematoxylin in solution. All other chemicals are non-hazardous.	
2a.2	<b>Synonym:</b>	Methanol	2b.2 Haematoxylin
2a.3	<b>Chemical Family:</b>	Alcohol	2b.3 Stain
2a.4	<b>Formula:</b>	CH <sub>3</sub> .OH	2b.4 C <sub>16</sub> H <sub>14</sub> O <sub>6</sub>
2a.5	<b>CAS Number:</b>	67-56-1	2b.5 517-28-2
2a.6	<b>EINECS Number:</b>	2006596	2b.6 2082373

### 3. HAZARDS IDENTIFICATION

**Hazard:** Flammable Reagent, possible slight irritant  
The methanol and the haematoxylin are present in considerably diluted form.

#### 3.1 Health Effects of Solution:

Effect on Skin: Slight staining and mild irritant to skin after lengthy exposure  
Effect on Eyes: Possible eye irritant  
Effect on Ingestion: Toxic  
Effect on inhalation: Toxic only after lengthy exposure

### 4. FIRST AID MEASURES

Eye Contact: Irrigate thoroughly with water for 10 minutes

Skin Contact: Drench with copious volumes of water

Ingestion: Remove from exposure, keep warm. Wash out mouth thoroughly with water. SEEK MEDICAL ADVICE. Do not induce vomiting

Inhalation: Remove from exposure, rest and keep warm. In severe cases Obtain medical advice

## **5. FIRE FIGHTING MEASURES**

**5.1 Special Fire or Explosion Hazards:**  
Flammable

**5.2 Suitable extinguishing Media:**  
Water spray, dry powder or vaporising liquids

**5.3 Other Recommendations:**  
None

## **6. ACCIDENTAL RELEASE MEASURES**

Shut off all sources of ignition. Wear appropriate protective clothing. If local regulations permit mop up with copious volumes of water and run to waste.

## **7. HANDLING AND STORAGE**

**7.1 Recommended Storage Conditions:**  
Store reagent at room temperature and away from any sources of ignition

**7.2 Recommended Handling Precautions:**  
Use gloves (rubber or latex) when using  
Do not use near a source of ignition

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Respiratory Protection:**  
Not required

**8.2 Ventilation:**  
Not required

**8.3 Eye Protection:**  
Not required

**8.4 Skin Protection:**  
Wear gloves at all times

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

Appearance:	Dark brown/black
Odour:	Slightly sweet
pH:	1.8 – 2.2
Solubility:	Fluid reagent containing water
Ignition temperature	464°C
Explosion limits	Lower 7.3%
	Upper 37%

## **10. STABILITY AND REACTIVITY**

**10.1 Conditions to Avoid:**  
Storage close to a source of ignition

**10.2 Materials to Avoid:**  
Acid halides, alkali metals, alkaline earth metals, oxidising agents, hydrides, zinc Diethyl, halogen compounds, chloroform  
The possibility of a reaction with other substances cannot be excluded

## 11. TOXICOLOGICAL INFORMATION

Each bottle contain 100mls eluting fluid

Route of entry:

Inhalation: Small volume unlikely to present any problems  
Ingestion: Toxic  
Skin and Eye Contact: Possible slight irritation of eyes and mucous membranes

After the absorption of large quantities: nausea, vomiting, headache, inebriation, impaired vision (irreversible damage of the optical nerve)

Systemic effect: acidosis, drop in blood pressure, agitation, spasms, narcosis, coma

### Toxicological Data:

Acute Toxicity: LD50 5628mg/kg oral, rat, LC50 83mg/l inhalation, rat  
(results given for pure methanol)

Carcinogenicity: No evidence of carcinogenic properties

## 12. ECOLOGICAL INFORMATION

No environmental hazard anticipated.

## 13. DISPOSAL INFORMATION

Run to waste with copious volumes of water providing local regulations permit

## 14. TRANSPORT INFORMATION

No special information

## 15. REGULATORY INFORMATION

Label for Supply: Toxic, Flammable

Risk Phrases: R10, R25, R36/38

Safety Phrases: S16, S24/25, S45

Regulatory References: None

## 16 OTHER INFORMATION

THIS KIT IS SUPPLIED IN 100ml BOTTLES

THIS REAGENT PRESENTS A FLAMMABLE RISK

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