



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

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1 Identification of the Preparation:

Fixol: Fixing 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

2.1 **Chemical Name:** Fixative Reagent. Contains methanol in a diluted form.
All other chemicals are non-hazardous.

2.2 **Synonym:** Methanol

2.3 **Chemical Family:** Alcohol

2.4 **Formula:** CH₃.OH

2.5 **CAS Number:** 67-56-1

2.6 **EINECS Number:** 2006596

3. HAZARDS IDENTIFICATION

Hazard: Flammable Reagent, possible slight irritant
The methanol is present in considerably diluted form.

3.1 Health Effects of Solution:

Effect on Skin: 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:	Clear
Odour:	Slightly sweet
pH:	8.85 – 9.30
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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