



Guest Medical

Safety Data Sheet [according to Regulation (EC) No. 1907/2006]

Version number: 1.0 Revision date: 28-FEB-2015

(supersedes all previous MSDS or SDS documents provided for this product).

SECTION 1 – Identification of the substance/mixtures and of the company/undertaking




1.1	Product Identifiers	
	Product Name:	Fetal Cell Detection Kit (FCD Kit) – Part A (Eluting)
	Product Codes:	05-050; 05-052
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Relevant Identified Uses:	Detection of fetal red cells in the maternal circulation.
1.3	Details of the supplier of the safety data sheet	
	Company:	Guest Medical Unit A6, Larkfield Trading Estate, Aylesford, Kent. ME20 6EW United Kingdom
1.4	Emergency Telephone Number:	+44 (0) 1622 791 895 Business hours 08.30 – 17.00 English Language service only

SECTION 2 – Hazards identification

2.1	Classification of the substance or mixture	
	Classification according to Regulation (EC) No 1272/2008 using the bridging principle:	
	Flammable liquids (Category 2), H225 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Acute toxicity, Oral (Category 3), H301 Specific target organ toxicity - single exposure (Category 1), H370	
	For the full text of the H-Statements mentioned in this Section, see Section 16.	
	Classification according to EU Directive 1999/45/EC:	
	F Highly flammable R11 T Toxic R23/24/25, R39/23/24/25	
	For the full text of the R-phrases mentioned in this Section, see Section 16.	



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2.2	Label elements		
	<div>Label according Regulation (EC) No 1272/2008:</div> <div>Hazard pictograms:</div> <div></div> <div>Signal word:</div> <div>Danger</div>		
	<div>Hazard statements:</div>	<div>H225 H301 H311 H331 H370</div>	<div>Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs.</div>
	<div>Precautionary statements:</div>	<div>P210 P260 P280 P301+P310 P311</div>	<div>Keep away from heat/sparks/open flames/hot surfaces - No smoking. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/ physician.</div>
	<div>Supplemental hazard statements:</div>	<div>None</div>	
2.3	Other hazards		
	<div>None</div>		

SECTION 3 – Composition/information on ingredients

3.2	Mixtures			
	Name	CAS No.	REACH Registration No.	% w/v
	Methanol	67-56-1	01-2119392409-28-XXXX	25-30
	Potassium chloride	7447-40-7	01-2119539416-36-XXXX	<0.5
	Magnesium chloride	7786-30-3	01-2119485597-19-XXXX	<0.1
	Iron trichloride	7705-08-0	01-2119497998-05-XXXX	<0.2
	Haematoxylin	517-28-2	-	<0.3
	Water	7732-18-5	-	Balance

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SECTION 4 – First aid measures

4.1	Description of first aid measures General notes: Consult a physician. Show this safety data sheet to the doctor in attendance. After skin contact: Wash off with soap and plenty of water and SEEK MEDICAL ADVICE. After eye contact: Rinse with water for at least 15 minutes and then SEEK MEDICAL ADVICE. After ingestion: Do NOT induce vomiting. Wash mouth thoroughly with water and SEEK MEDICAL ADVICE. After inhalation: Move person into fresh air. If not breathing, give artificial respiration and SEEK MEDICAL ADVICE.
4.2	Most important symptoms and effects, both acute and delayed Effects as described in section 2.2.
4.3	Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5 – Firefighting measures

5.1	Extinguishing media Suitable extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: Standard water based foam.
5.2	Special hazards arising from the substance or mixture product Hazardous combustion products: Carbon oxides, formaldehyde.
5.3	Advice for fire-fighters Wear self-contained breathing apparatus.

SECTION 6 – Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures Use personal protective equipment - see section 8. For large spillages evacuate area and prevent access to spillage area during clean up. Remove sources of ignition. Potential for vapours to accumulate to produce an explosive atmosphere. Vapour can accumulate at low level.
6.2	Environmental precautions Prevent product from entering surface or ground water drains.

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6.3	Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Clean site of spillage with water and detergent. Where appropriate use signage to indicate wet surface / a slip hazard.
6.4	Reference to other sections Refer to sections 8 and 13.

SECTION 7 – Handling and Storage

7.1	Precautions for safe handling <table> <tr> <td>Measures to prevent fire:</td><td>Do not use in close proximity to naked flame, hot surface and other potential sources of ignition.</td></tr> <tr> <td>Measures to prevent aerosol and dust generation:</td><td>Use in a well ventilated area.</td></tr> <tr> <td>Measures to protect the environment:</td><td>Prevent entry to surface drains and ground water.</td></tr> <tr> <td>Advice on general occupational health:</td><td>Do not eat, drink or smoke whilst handling this product. Remove any contaminated clothing or protective equipment before leaving the work area. Wash hands after use.</td></tr> </table>	Measures to prevent fire:	Do not use in close proximity to naked flame, hot surface and other potential sources of ignition.	Measures to prevent aerosol and dust generation:	Use in a well ventilated area.	Measures to protect the environment:	Prevent entry to surface drains and ground water.	Advice on general occupational health:	Do not eat, drink or smoke whilst handling this product. Remove any contaminated clothing or protective equipment before leaving the work area. Wash hands after use.
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Measures to prevent aerosol and dust generation:	Use in a well ventilated area.								
Measures to protect the environment:	Prevent entry to surface drains and ground water.								
Advice on general occupational health:	Do not eat, drink or smoke whilst handling this product. Remove any contaminated clothing or protective equipment before leaving the work area. Wash hands after use.								
7.2	Conditions for safe storage Store between 16 and 25°C away from potential sources of ignition and incompatible materials (see section 10).								

SECTION 8 – Exposure controls/ personal protection

8.1	Control parameters This product contains the following substance with an occupational exposure limit value according to EH40/2005 Workplace Exposure Limits (UK). Methanol - LTEL 200ppm / 266mg.m ⁻³ ; STEL 250ppm / 333mg.m ⁻³		
8.2	<table> <tr> <td> Exposure controls Appropriate engineering controls: Personal protective equipment: </td><td> Control inhalation risk with local exhaust ventilation (LEV) appropriate for the volume being handled. When handling large volumes wear eye protection conforming to EN 166. Use natural or nitrile rubber gloves conforming to EN 374 shown to be chemically resistant to category A. Where inhalation risk is not adequately mitigated with LEV use respiratory protective equipment either a full face mask conforming to EN 136 or valve filtering half mask to EN405 or half mask to EN140. Use AX (brown; organic gases and vapours, boiling point at or below 65 °C) type filter conforming to EN371. Where RPE is used a face fit test should be carried out. </td></tr> </table>	Exposure controls Appropriate engineering controls: Personal protective equipment:	Control inhalation risk with local exhaust ventilation (LEV) appropriate for the volume being handled. When handling large volumes wear eye protection conforming to EN 166. Use natural or nitrile rubber gloves conforming to EN 374 shown to be chemically resistant to category A. Where inhalation risk is not adequately mitigated with LEV use respiratory protective equipment either a full face mask conforming to EN 136 or valve filtering half mask to EN405 or half mask to EN140. Use AX (brown; organic gases and vapours, boiling point at or below 65 °C) type filter conforming to EN371. Where RPE is used a face fit test should be carried out.
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SECTION 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Black liquid
b)	Odour	No data available
c)	Odour threshold	No data available
d)	pH	1.8 - 2.1
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Solubility(ies)	Miscible with water
o)	Partition coefficient (n-octanol/water)	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidising properties	No data available

SECTION 10 – Stability and reactivity

10.1 Reactivity

Non-reactive under normal conditions of storage and use.

10.2 Chemical stability

Stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Under appropriate conditions can react with strong acids and bases, strong oxidising agents.

10.4 Conditions to avoid

Keep away from flames, hot surfaces and other sources of ignition.
Storage with incompatible materials.

10.5

Incompatible materials

Strong acids and bases, strong oxidising agents.

10.6 Hazardous decomposition products

From methanol - carbon oxides, formaldehyde.

SECTION 11 – Toxicological information

11.1 **Information on toxicological effects:** No test information available for this product.

For methanol:

Symptoms of exposure may include headache, dizziness, tiredness, nausea and vomiting. May cause blindness.

Acute Toxicity:

Category 3 - oral, dermal and inhalation

LD₅₀ - oral - human - 143 mg/kg

LD₅₀ - oral - rat - 2,769 mg/kg

LC₅₀ Inhalation - rat - 4 h - 128.2 mg/l

LC₅₀ Inhalation - rat - 6 h - 87.6 mg/l

LD₅₀ Dermal - rabbit - > 17,100 mg/kg

Skin corrosion/irritation:

Based on the data available the classification criteria are not met.

Serious eye damage/irritation:

Based on the data available the classification criteria are not met.

Respiratory or skin sensitisation:

Based on the data available the classification criteria are not met.

Germ cell mutagenicity:

Based on the data available the classification criteria are not met.
(Mutagenic effects in animals have been recorded).

Carcinogenicity:

Not identified as a probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

Based on the data available the classification criteria are not met.
(Reproductive toxicity and development effects in animals have been recorded).

STOT - single exposure:

Category 1 - gastrointestinal tract, central nervous system, eyes, respiratory system, skin, optic nerve, liver, kidney, spleen and blood.

STOT - repeated exposure:

Based on the data available the classification criteria are not met.

Aspiration hazard:

Based on the data available the classification criteria are not met.

SECTION 12 - Ecological information

Toxicity

12.1 No test information available for this product.

For methanol:

Toxicity to fish mortality:

LC₅₀ - *Lepomis macrochirus* (Bluegill) - 96 h - 15,400.0 mg/l

NOEC - *Oryzias latipes* - 200 h - 7,900 mg/l

Toxicity to daphnia and other aquatic invertebrates:

EC₅₀ - *Daphnia magna* (Water flea) - 48 h - > 10,000.00 mg/l

Toxicity to algae:

Growth inhibition EC₅₀ - *Scenedesmus capricornutum* (fresh water algae) - 96 h - 22,000.0 mg/l

12.2 **Persistence and Degradability**

No test information available for this product. Methanol is readily biodegradable and unlikely to be persistent.

12.3 **Bioaccumulative potential**

No test information available for this product. Methanol is unlikely to bioaccumulate.

12.4 **Mobility in soil**

No test information available for this product. Methanol will disperse rapidly in air.

12.5 **Results of PBT and vPvB assessment**

PBT/vPvB assessment is not available for this product as chemical safety assessment is not required/not conducted.

12.6 **Other adverse effects**

No data available

SECTION 13 – Disposal considerations**13.1 Waste treatment methods**

Use a licensed waste disposal service to dispose of this material and any container washings.

Wash out containers with water before reuse, recycling or disposal of container.

SECTION 14 – Transport information

- | | | |
|------|--------------------------------------|--|
| 14.1 | UN Number: | 1230 |
| 14.2 | UN proper shipping name: | Fetal Red Cell Detection Kit; Kleihauer Kit. |
| 14.3 | Transport hazard class(es): | 3 (subsidiary hazard class 6.1) |
| 14.4 | Packing group: | II |
| 14.5 | Environmental hazards: | Not applicable |
| 14.6 | Special precautions for user: | No data available |

SECTION 15 – Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

U.K. Legislation:

The Management of Health and Safety at Work Regulations 1999 [SI 1999 No.3242] (regulation 3) requires suitable and sufficient assessment of risks in the workplace. Assessment should include arrangements to ensure, as far as is reasonably practical, the safe use, handling, storage and transport of his product.

Waste product and packaging should be disposed of in accordance with the Environmental Protection Act 1990 [1990 Chapter 43]

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this product

SECTION 16 – Other information**Full text of H-Statements referred to in sections 2 and 3;**

H 225	Highly flammable liquid and vapour
H 301	Toxic if swallowed
H 301+H 311+H 331	Toxic if swallowed, in contact with skin or if inhaled
H 311	Toxic in contact with skin
H 331	Toxic if inhaled
H370	Causes damage to organs

Full text of R-phrases referred to under sections 2 and 3

F	Highly flammable
T	Toxic
R 11	Highly flammable
R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R 39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Revision no.	2
Revision date:	26. 03. 2015

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.