SAFETY DATA SHEET

Cyto-Cellect® Mouse Detection Kit

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material. This information should be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008. However, the product is not classified as hazardous and contains no hazardous ingredients and this SDS is considered to be non-mandated and is provided for information only.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Cyto-Cellect® Mouse Detection Kit

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

Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Fluidic Sciences Ltd
27-29 Jarman Way
Royston, Hertfordshire
SG8 5HW
United Kingdom
support@fluidic.com

1.4 Emergency telephone number

In case of emergency **+44 1223 983957**

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008 [CLP/GHS]

Aquatic Chronic 3 – H412
Fatal if swallowed – H300
Very toxic to aquatic life – H400
Very toxic to aquatic life with long lasting effects – H410

2.2 Label elements

Hazard statements (CLP)

- H412 - Harmful to aquatic life with long lasting effects.
- H300 - Fatal if swallowed
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

- P273 - Avoid release to the environment.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

- EUH032 - Contact with acids liberates very toxic gas

2.3 Other hazards

Always follow good laboratory practices, lab coat, gloves and safety glasses should be worn while using the product.

SECTION 3: Composition

3.1 Substances

Not applicable – product is a mixture.

3.2 Mixtures

Ingredient	CAS	%	Classification
Glycerol	56-81-5	50	Not classified
Sodium Azide	26628-22-8	0.54	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Seek medical attention if irritation arises.

INHALATION: Using proper respiratory protection, move the exposed person to fresh air at once. Immediately call a poison center, physician, or emergency medical service.

SKIN CONTACT: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

INGESTION: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

INGESTION: Ingestion may cause adverse effects. May be harmful if swallowed

INHALATION: May be harmful or cause irritation

EYES: Discomfort if first aid not administered

SKIN: Prolonged exposure may cause skin irritation

4.3 Indication of any immediate medical attention and special treatments needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Water, Foam, Carbon dioxide (CO2), Dry powder

5.2 Special hazards arising from the substance or mixture
Carbon oxides. Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

Do not use a heavy water stream. Use of heavy stream of water may spread fire

Sodium azide in water is a weak base. Reacts with copper, lead, silver, mercury, and carbon disulfide to form shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide. Contact with acids liberates toxic gas.

5.3 Advice for fire fighters
In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For spillage of bulk material or quantities > 1 litre, gloves resistant to fluorinated solvents and eye protection recommended. Avoid contact with eyes, skin and clothing. Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment

6.3 Methods and materials for containment and clearing up

SMALL SPILLS (under 1 L): Cover drains. Use absorbent material and place in a suitable container for disposal.
LARGE SPILLS: (more than 1 L): Use appropriate containment to avoid contamination of surrounding area.

6.4 References to other sections
See section 8 for further advice on protective equipment and section 13 for further advice on disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed when not in use. Keep/Store away from extremely high temperatures and incompatible materials.
Incompatible material: Strong acids, strong bases, strong oxidizers. Heavy metals. Halogenated hydrocarbons

7.3 Specific end uses(s)
For professional use only. Not intended for *in vivo* use. For *in vitro* research use only.
Use only as directed as a laboratory chemical.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

Occupational Exposure limit values

Component	CAS-No.	Control parameters	Value	Basis
Glycerol	56-81-5	TWA	10 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
		TWA	10 mg/m3 Mist	UK. EH40 WEL - Workplace Exposure Limits
Sodium Azide	26628-22-8	TWA	0.1 mg/m3	EU

8.2 Exposure controls

Engineering controls
Normal laboratory ventilation is adequate.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Hand Protection
Wear gloves suitable for fluorinated solvents. Change gloves in accordance with manufacturer's recommendations.

Eye protection
Wear chemical safety goggles

Skin protection
For handling, wear laboratory coats and gloves.

General Hygiene Considerations
Wash hands after handling. Launder contaminated clothing before reuse.

Environmental exposure controls
Precautions should be taken to avoid accidental release of material to water courses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	FRET Donor: Pale yellow/green; FRET Acceptor: Purple liquid.
Odour:	No discernible odour
Odour threshold:	No data
pH:	7.6, when rehydrated with indicated volume of H2O
Melting point:	No data
Boiling point:	No data
Flashpoint:	199 °C at ca.1,013 hPa - Pensky-Martens closed cup - ISO 2719
Evaporation rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability limits:	Upper explosion limit: 19 %(V) at 1013 hPa Lower explosion limit: 2.7 %(V) at 1013 hPa
Vapour pressure:	No data
Vapour density	No data
Relative density	No data
Solubility in water:	Soluble in water

Solubility in other solvents:	No data
Partition coefficient (log Kow)	No data
Autoignition temperature	370 °C
Decomposition temperature	> 290 °C
Viscosity	No data
Explosive properties	No data
Oxidising properties	No data

9.2 Other information
None

SECTION 10: Stability and Reactivity

10.1 Reactivity
Forms explosive mixtures with air on intense heating.
Sodium azide in water is a weak base. Reacts with copper, lead, silver, mercury, and carbon disulfide to form shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide. Contact with acids liberates toxic gas.

10.2 Chemical stability
Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions
Risk of explosion with: halogens, Strong oxidizing agents, peroxy compounds, hydrogen peroxide, Nitriles, perchloric acid with Lead oxides, Nitric acid with sulfuric acid
Risk of ignition or formation of inflammable gases or vapours with: potassium permanganate, hydrides, calcium hypochlorite, Fluorine with Lead oxides
Exothermic reaction with: Oxides of phosphorus, chromium(VI) oxide, phosphorus halides, Acetic anhydride with phosphorous, oxichloride with Nitrobenzene

10.4 Conditions to avoid
Extremely high temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition.

10.5 Incompatible materials
Strong acids, strong bases, strong oxidizers. Heavy metals. halogenated hydrocarbons

10.6 Hazardous decomposition products
Sodium oxides. Hydrogen chloride gas. Nitrogen oxides.
In the event of fire see section 5.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects
This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	Normal recommended use is estimated to be of low toxicity
(b) skin corrosion/irritation	Estimated to be slightly irritant to skin, but not classified.
(c) serious eye damage/irritation	Estimated to be slightly irritant to eyes, but not classified.
(d) respiratory/skin sensitisation	Not considered to be a potential skin sensitiser. Product not tested.
(e) germ cell mutagenicity	This chemical class is not known to be mutagenic.
(f) carcinogenicity	This chemical class is not known a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.
(g) reproductive toxicity	This chemical class is not known to be toxic for reproduction
(h) STOT-single exposure	This chemical class is not considered hazardous to organs

(i) STOT-repeated exposure This chemical class is not considered hazardous to organs.
(j) aspiration hazard The solvents are not classified as Aspiration Toxic.

SECTION 12: Ecological Information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity
Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
Other information: Avoid release to the environment

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Notice Directive on waste 2008/98/EC

Ecology - waste materials : Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways

SECTION 14: Transport Information

Not classified as dangerous goods, no labelling for transport is required

	ADR	IMDG	ICAO
14.1 UN Number	Not applicable	Not applicable	Not applicable
14.2 UN Proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	No Information available

14.6 Special precautions for user	Not applicable	Not applicable	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No specific legislation

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.
Chemical safety assessment has been performed on some of the components and no concerns noted in respect to the intended use of this product.

SECTION 16: Other Information

Revision information:
Rebranding changes, and updated contact details.

List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Commission
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB	very Persistent, very Bioaccumulative

References
Source: European Chemicals Agency, http://echa.europa.eu/

Method used for classification:
Consideration of starting reagents

R Phrases and H Statements used in Section 2 and/or 3

Training requirements for workers
No special training requirements. For professional use only.

----- END OF SAFETY DATA SHEET -----