

	SAFETY DATA SHEET	SF-005750-DS
	Fc Fusion Detection Kit	Version: 2 Issue Date : 13 th June 2024 Supersedes: N/A

SAFETY DATA SHEET

Fc Fusion 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

Fc Fusion 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

Sphere Fluidics Limited
Building One,
Granta Park,
Granta Centre,
Cambridge,
CB21 6AL
support@spherefluidics.com

1.4 Emergency telephone number

In case of emergency **01223 942015** (Mon - Fri 8am to 5pm)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

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

Not classified

2.2 Label elements

Not considered Hazardous
No precautionary statements considered relevant

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

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Not applicable – product is a mixture.

3.2 Mixtures

Ingredient	CAS	%	Classification
Glycerol	56-81-5	50	Not classified
DMSO	67-68-5	5	Not classified

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: Remove from further exposure. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek urgent medical attention

SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

INGESTION: Rinse mouth with water, make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

INGESTION: No known symptoms

INHALATION: No known symptoms

EYES: Discomfort if first aid not administered

SKIN: Mild discomfort and possible reaction such as itching or redness

4.3 Indication of any immediate medical attention and special treatments needed

Dilute affected areas. No special medical treatment needed

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

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 skin contact. Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

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Do not let product enter drains.

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. For professional use only. Not intended for in vivo use.

7.3 Specific end uses(s)

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/m ³	UK. EH40 WEL - Workplace Exposure Limits
		TWA	10 mg/m ³ Mist	UK. EH40 WEL - Workplace Exposure Limits

8.2 Exposure controls

Engineering controls

Normal laboratory ventilation is adequate.

Respiratory protection

Not required for normal handling.

Hand Protection

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

Eye protection

Eye protection recommended

Skin protection

For handling, laboratory coats and gloves are recommended.

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.

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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:	7.4
Melting point:	No data
Boiling point:	No data
Flashpoint:	199 °C at ca.1,013 hPa - Pinsky-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	No data
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.

10.2 Chemical stability

Stable under normal conditions.

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

Strong heating

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire see section 5.

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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

This chemical class is not known to be toxic to aquatic organisms.

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

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

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	Not applicable	Not applicable	Not applicable

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name			
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	Not applicable	Not applicable	Not applicable
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.

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