

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

- **Product identifiers**

Product Name: Exo-spin™ Kit
Catalogue Number: EX01, EX02, EX06

- **Relevant identified uses of the substance or mixture and uses advised against**

Research use only. Not for human use.

- **Details of the supplier of the safety data sheet**

Company	Cell Guidance Systems Maia Building, Babraham Research Campus, Cambridge CB22 3AT, UK
Web	www.cellgs.com
Email	tech@cellgs.com
Telephone	+44 (0)1223 967316

- **Emergency Information**

In case of a chemical emergency, spill, fire, or exposure, call Cell Guidance Systems at +44 (0) 1223 967316 (09.00 - 17.00 GMT). In US call 760 450 4304.

2. HAZARDS IDENTIFICATION

- **Classification of the substance or mixture**

Not a hazardous substance or mixture.
This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008.

- **Label elements**

The product does not need to be labeled in accordance with EC directives or respective national laws.

- **Other hazards**

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substances**

Ethanol - 20%; CAS: 64-17-5

The product does not contain any more hazardous substances at concentrations of 1% or greater. The product is not known to contain carcinogens at a concentration of 0.1% or greater. No MSDS is required.

4. **FIRST AID MEASURES**

- **Description of first aid measures**

General advice:	Consult a doctor and show this safety data sheet.
If inhaled:	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
In case of skin contact:	Immediately wash skin with copious amounts of soap and water and rinse thoroughly. Generally the product does not irritate the skin. Consult a doctor.
In case of eye contact:	Flush with copious amounts of water for several minutes. Consult a doctor.
If swallowed:	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

5. **FIRE-FIGHTING MEASURES**

- **Classification of substance**

The product is non-flammable.

- **Suitable extinguishing media**

Use water spray, carbon dioxide, dry chemical powder or alcohol-resistant foam.

- **Protective Equipment**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. **ACCIDENTAL RELEASE MEASURES**

- **Personal precautions, protective equipment and emergency procedures**

Use standard laboratory practices including proper personal protective equipment. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

- **Environmental precautions**

Do not let product enter drains.

- **Methods and materials for containment and cleaning up**

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of MSDS.

- **Additional information**

None

7. **HANDLING AND STORAGE**

- **Precautions for safe handling**

No special measures required. No special precautions are necessary if used correctly. Avoid inhalation, contact with eyes, skin and clothing.

- **Conditions for safe storage, including any incompatibilities**

Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at 4°C

- **Specific end uses**

None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters**

Components with workplace control parameters None known. Contains no substances with occupational exposure limit values.

- **Exposure controls**

Appropriate engineering controls Ensure all engineering measures described under section 7 of MSDS are in place.
Follow usual standard laboratory practices. Use appropriate personal protective work clothing.

- **Personal protective equipment**

Eye / face protection	Use appropriate safety glasses.
Skin protection	Use appropriate chemical resistant gloves. Gloves should be inspected before use. Wash and dry hands thoroughly after handling.
Body protection	Wear appropriate protective clothing.
Respiratory protection	Respiratory equipment is not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**

PBS (Phosphate Buffer Saline)

Appearance	Clear liquid colourless
Vapor pressure	No data available
Vapor density	No data available
Odor	No data available
Odor threshold	No data available
Relative density	No data available
pH	No data available
Solubility(ies)	No data available
Melting / freezing point	No data available
Partition coefficient	No data available
Boiling point / range	No data available
Auto-ignition temperature	No data available
Flash point	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Viscosity	No data available
Flammability (solid, gas)	No data available
Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available
Oxidising properties	No data available

Exo-spin™ column resin

Appearance	Liquid grey translucent
Vapor pressure	No data available
Vapor density	No data available
Odor	Alcohol-like
Odor threshold	170 ppm
Relative density	No data available
pH	No data available
Solubility(ies)	Water
Melting / freezing point	No data available
Partition coefficient	No data available
Boiling point / range	No data available
Auto-ignition temperature	No data available
Flash point	36-45°C - closed cup
Decomposition temperature	No data available
Evaporation rate	No data available
Viscosity	No data available
Flammability (solid, gas)	No data available
Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available
Oxidising properties	No data available

Exo-spin™ precipitant buffer

Appearance	Viscous liquid transparent
Vapor pressure	No data available
Vapor density	No data available
Odor	Odourless
Odor threshold	No data available
Relative density	No data available
pH	No data available
Solubility(ies)	Water soluble
Melting / freezing point	No data available
Partition coefficient	No data available
Boiling point / range	No data available
Auto-ignition temperature	No data available
Flash point	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Viscosity	No data available
Flammability (solid, gas)	No data available
Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available
Oxidising properties	No data available

- **Other safety information**

No data available

10. STABILITY AND REACTIVITY

PBS

Reactivity

No data available.

Chemical stability

Stable under recommended storage and handling conditions.

Possibility of hazardous reactions

No data available.

Conditions to avoid

No data available.

Incompatible materials

Strong oxidising agents.

Hazardous decomposition products

In the event of fire see section 5.

Exo-spin™ column resin

Reactivity

No data available.

Chemical stability

Stable under recommended storage and handling conditions.

Possibility of hazardous reactions

Stable under recommended storage and handling conditions.

Conditions to avoid

Avoid sources of ignition

Incompatible materials

Oxidising agents

Hazardous decomposition products

Hazardous decomposition products should not be produced under recommended storage and handling conditions.

Exo-spin™ precipitant buffer

Reactivity

No data available.

Chemical stability

No data available.

Possibility of hazardous reactions

No data available.

Conditions to avoid

No data available.

Incompatible materials

Strong oxidising agents

Hazardous decomposition products

No data available. Other decomposition products.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

PBS

Acute Toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Additional Information	Not available

Exo-spin™ column resin

Acute Toxicity	Ethanol: 4 hour exposure - vapour Inhalation LC50 - Rat- 113600 mg/m ³ .
Skin corrosion/irritation	Cracking or dryness if repeatedly exposed.
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Additional Information	Not available

Exo-spin™ Precipitant Buffer

Acute Toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Additional Information	Not available

12. ECOLOGICAL INFORMATION

PBS

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Not available

Other adverse effects

No data available

Exo-spin™ column resin

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Not available

Other adverse effects

No data available

Exo-spin™ precipitant buffer

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Not available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**• Waste treatment methods**

Product	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
Contaminated packaging	Dispose in accordance with national, regional, or local legislation.

14. TRANSPORT INFORMATION**• UN Number**

Not regulated.

• DOT regulations

Hazard class: None

• Land transport ADR/RID (cross-border)

Not regulated.

• Maritime transport IMDG

Not regulated.

• Marine pollutant

No.

• Air transport ICAO-TI and IATA-DGR

Not regulated.

• Transport/Additional information

Not dangerous according to the above specifications.

• Environmental hazards

No.

• Special precautions for users

No data available.

15. REGULATORY INFORMATION

- **USA**

TSCA (Toxic Substances Control Act)

The product is not listed.

SARA 313

The product is not listed.

SARA 311/312 Hazards

None known.

CERCLA Reportable Quantity

The product is not reportable under 40 CFR Part 302.4.

California Proposition 65

The product is not listed on California's listing of known or potential carcinogens.

- **EU**

This MSDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

- **Canada**

Not WHMIS controlled. This MSDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16. OTHER INFORMATION

- **Disclaimer**

THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

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End of safety data sheet