

MATERIAL SAFETY DATA SHEET

Version 1.0, April 2017

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

Product identifiers

Product Name: PODS™ Protein Crystals

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

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Cambridge CB22 3AT, UK

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 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

The product does not contain any 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

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

· 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

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

Appearance Lyophilized white powder or clear liquid

Vapor pressure

Vapor density

No data available

No data available

Odor

Little to none

Odor threshold

Relative density

PH

No data available

No data available

No data available

Solubility(ies) Solubility specified in product datasheet

Melting / freezing point No data available Partition coefficient No data available No data available Boiling point / range Auto-ignition temperature No data available Flash point No data available Decomposition temperature No data available No data available **Evaporation rate** Viscosity No data available Non-flammable material Flammability (solid, gas)

Explosive properties

Upper / lower flammability or explosive limits

Oxidising properties

No data available

No data available

• Other safety information

No data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended transport or storage conditions.

Chemical stability

Stable under recommended storage and handling conditions.

Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid

Heat, light, moisture.

Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

11. TOXICOLOGICAL INFORMATION

• Information on toxicological effects

Acute Toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Additional Information

Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data Classification criteria are not met based on available data

RTECS No: Not available

When used and handled according to specifications, the product does not have any harmful effects according to available information.

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

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

No data 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

Does not meet the criteria for classification as hazardous for transport.

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

This product is not classified as environmentally hazardous according to the UN Model Regulations.

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