

Product Safety Information

E-SPHERES®

Please observe the general information about this PSI in chapter 16. Other Information.

1. Identification of the Substance / Mixture and of the Company / Undertaking

1.1 Product Identifier

Commercial product name	E-SPHERES®
Synonyms	Cenospheres, hollow ceramic microspheres.
CAS no.	93924-19-7
EC-no.	300-212-6
REACH registration number	01-2119563688-21-0002

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use	Lightweight filler.
Use advised against	None.

1.3 Details of the Supplier of the Product Safety Information

Company designation	Envirospheres Pty Ltd PO Box 497 Lindfield NSW 2070 Australia Phone: +61 2 9416 5644
E-mail (competent person)	info@envirospheres.com.au

1.4 Emergency Telephone Number

Emergency telephone number	REACH- and CLP helpdesk: http://echa.europa.eu/help/echahelp_de.asp
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2. Hazards Identification

2.1 Classification of the Substance or Mixture

Classification according to:
Regulation (EC) No. 1272/2008

Not classified according to CLP.

2.2 Other Hazards

Particular information pertaining
specific risk for human /
environment

This substance does not meet the criteria for classification
as PBT or vPvB.

3. Composition / Information on Ingredients

3.1 Chemical Characterization

Chemical characterization

Hollow ceramic microspheres of amorphous aluminosilicate
(or aluminosilicate).

4. First Aid Measures

4.1 Description of First Aid Measures

General advice	In all cases of doubt, or when symptoms persist, seek medical advice.
If inhaled	Move person to fresh air. Upon discomfort, get medical advice.
In case of skin contact	Wash with water and soap.
In case of eye contact	Might cause mechanical irritation. Upon discomfort, keep eyelid open and rinse with large quantities of water.
If swallowed	Rinse mouth immediately and drink plenty of water.

4.2 Indication of any Immediate Medical Attention and Special Treatment Needed

Immediate medical attention	First Aid, decontamination, treatment of symptoms.
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5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media The product is not combustible. Choose extinguishing media suitable for surrounding fire.

Extinguishing media which must not be used for safety reasons None.

5.2 Special Hazards Arising from the Substance or Mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases The product is stable if stored and handles as prescribed / indicated.

5.3 Advice for Fire Fighters

Special protective equipment for fire fighting Self-contained respirator / breathing apparatus (DIN EN 133).

Additional information on fire fighting No special measures are required.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions Avoid generation and breathing of dust. Avoid contact with skin and eyes. If the dust concentration in workplace air exceeds the occupational exposure limit values, approved and suitable respiratory protection must be used.
Personal protective equipment: refer to chapter 8.

6.2 Environmental Precautions

Environmental precautions The product is not classified as dangerous to the environment. Spillage to ground or water systems should be avoided as it floats on the water surface.

6.3 Methods and Materials for Containment and Cleaning Up

Methods for cleaning up Dust must be exhausted directly at the point of origin. Use approved industrial vacuum cleaner for removal. To clean the floor and all objects contaminated by this material, use plenty of water. Retain contaminated washing water and dispose it.

6.4 Reference to Other Sections

Reference to other sections See protective measures under points 7 and 8.

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7. Handling and Storage

7.1 Precautions for Safe Handling

Advice on safe handling	Keep container tightly closed and in a well-ventilated place. Carry out filling operations only at stations with exhaust ventilation facilities. Avoid generation of dust. Do not breathe dust. If the dust concentration in workplace air exceeds the occupational exposure limit values, approved and suitable respiratory protection must be used.
Advice on protection against fire and explosion	No special fire protection measures are necessary. The product is not combustible, oxidizing, and/or explosive.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage space and container requirements	No special requirements are necessary.
Storage specifications	Keep container tightly closed in a well-ventilated place.

8. Exposure Controls / Personal Protection

8.1 Exposure Controls

Respiratory protection	If the dust concentration in workplace air exceeds the occupational exposure limit values, approved and suitable respiratory protection must be used. Filter type P2.
Hand protection	The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. See information supplied by the manufacturer.
Eye protection	Wear goggles with side protection according to EN 166.
Skin and body protection	Wear suitable protective clothing, gloves and eye/face protection.
General protective and hygiene measures	When using, do not eat, drink, or smoke. Wash hands before breaks and after work.
Consumer exposure controls	<p>A) Occupational exposure limit values: (American Conference of Governmental Industrial Hygienists ACGIH, 2010). 8h TWA: 10mg/m³ (Particulates (insoluble or poorly soluble) Not Otherwise Specified, PNOS) (E: inhalable fraction of dust) 8h TWA: 4mg/m³ (PNOS) (A: respirable fraction of dust) B) Environmental exposure controls (Dir 2008/50/EC) PM10: 50µg/m³* limit value, one day (1.1.2010) PM10: 20µg/m³ limit value, calendar year PM2.5: 25µg/m³ target value (1.1.2010) PM2.5: 20µg/m³ limit value (1.1.2020) *not to be exceeded more than 35 times a calendar year</p>

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9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical state	Solid.
Form	Hollow microspheres.
Colour	White or Light grey / Grey.
Odour	Barely perceptible odour.
Odour threshold	Not applicable.
pH	
remarks:	Raw cenospheres in leachate
pH:	5.5 - 6.4 (30 min. - 24h).
remarks:	Processed cenospheres in leachate
pH:	6.5 - 6.9 (30 min. - 24h).
Melting point	1260 - 1560 °C.
Boiling point / °C	Not applicable.
Flash point / °C	Not combustible.
Flammability	Non-flammable.
Risk of explosion	Not explosive.
Vapour pressure	Not applicable.
Density	
remarks:	Raw cenospheres
density:	1 g/cm ³ .
remarks:	Processed cenospheres (dried at 105 °C)
density:	0.7 g/cm ³ .
Water solubility	0.051 - 0.068 g/L (0.17□ - 0.23□ w/w)
remarks:	Main components are not soluble in water.
Solubility	Practically insoluble.
Partition coefficient (n-octanol/water)	Not applicable.
Autoflammability	No self-ignition up to the melting point.
Decomposition temperature	No data available.
Viscosity, dynamic	Not applicable.
Oxidation	Not oxidising.

9.2 Other Information

Bulk Density	0.4 g/cm ³
remarks:	Raw cenospheres, processed cenospheres (dried at 105 °C).

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12.3 Mobility in Soil

Mobility No data available.

12.4 Results of PBT and vPvB Assessment

Results of PBT characteristics determination Product / Substance is inorganic.

12.5 Other Adverse Effects

Further information on ecology The product does not meet the criteria for classification as hazardous to the environment as laid down in (EC) No. 1272/2008 (CLP) for any ecotoxicological endpoint.

13. Disposal Considerations

13.1 Waste Treatment Methods

Disposal considerations The material should be recovered for recycling if possible. This material is not classified as hazardous waste according to Commission decisions 2000/532/EC and 2001/118/EC. Prior to disposal of large quantities of this material advice should be sought from the Environment Agency Office.

14. Transport Information

14.1 Land Transport GG□S/ADT/RID

Remarks No dangerous good in sense of this transport regulation.

14.2 Marine Transport IMDG/GG□See

Remarks No dangerous good in sense of this transport regulation.

14.3 Air Transport ICAO/IATA

Remarks No dangerous good in sense of this transport regulation.

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislations Specific for the Substance or Mixture

Additional regulations Specific national regulations must be considered.

Water hazards class (self-classification) Non-hazardous to water (nwg).

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15.2 Chemical Safety Assessment

Safety assessment

The PSI has been compiled in compliance with (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP). Conclusion from CSA: non-hazardous.

16. Other Information

16.1 General Information

According to Chapter 1.5.2 of the UN Globally Harmonised System of classification and labelling of chemicals (GHS), Article 58 (2)(a), and Article 59(2)(b) of (EC) No 1272/2008 (CLP), which amends REACH article 31(1), **safety data sheets are only required for substances and mixtures that meet the harmonised criteria for physical, health or environmental hazards.**

Since the product does not meet these criteria, a safety data sheet is not issued.

In order to communicate relevant HSE information, this Product Safety Information (PSI) is provided instead. REACH article 31(7) requires relevant exposure scenarios from the Chemical Safety Report (CSR) to be placed into the annex to the Safety Data Sheet. According to REACH Annex I, section 0, subsection 0.6. no. 4 and 5 however, **exposure scenarios are only required for hazard-classified substances or preparations.**

Since the product is not hazard-classified, there is no requirement for exposure scenarios.

16.2 Legal Disclaimer

The information given in this PSI is to the best of ENVIROSPHERES' knowledge and believed accurate and reliable as of the data indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

This Product Safety Information sheet replaces the Product Safety Information Sheet of January 2012

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