This PSI replaces the MSDS. Product is not hazardous according to CLP, see section 2.1. Please observe the general information about this PSI in section 16. “Other Information”.

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

1.1 Product Identifier

Commercial product name E-SPHERES®
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 OMEGA MINERALS Germany GmbH
Rugenbarg 63a
22848 Norderstedt
Germany
E-mail (competent person) info@osthoffomegagroup.com

1.4 Emergency Telephone Number

Emergency telephone number +49 40 528707-0
Mobile +491776784633

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

EC name Ashes (residues), Cenospheres.
Synonym Hollow ceramic microspheres of amorphous aluminosilicate.
CAS no. 93924-19-7
EC no. 300-212-6
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.

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 itself, its combustion products, or released gases The product is stable if stored and handled as prescribed / indicated.

5.3 Advice for Fire Fighters

Special protective equipment Self-contained respirator / breathing apparatus (DIN EN 133).
Additional information 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. Refer to section 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 sections 7 and 8.
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 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
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: 25µg/m³ limit value (1.1.2015)
*not to be exceeded more than 7 times a calendar year

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical state
Solid.

Form
Hollow, fine particle powder.

Colour
White or light grey / Grey.

Odour
Barely perceptible odour.

pH value
6.0 - 8.0 (10% w/v).

Melting point (°C)
1200 -1800 / 1500 - 1600.

Boiling point (°C)
Not applicable.

Flash point (°C)
Not combustible.

Risk of explosion
Not explosive.

Density (g/cm³)
Maximum 0.85.

Water solubility (g/L)
0.051 - 0.068 g/L (0.17 - 0.23 w/w).

Solubility
Practically insoluble.

Autoflammarbility
No self-ignition up to the melting point.

Oxidation
Not oxidising.
10. Stability and Reactivity

10.1 Reactivity
Reactivity
The product is stable if stored and handled as advised.

10.2 Chemical Stability
Chemical stability
The product is stable if stored and handled as advised.

10.3 Possibility of Hazardous Reactions
Hazardous reactions
The product is stable if stored and handled as advised.

10.4 Conditions to Avoid
Conditions to avoid
Avoid contact with skin, eyes and clothes.

10.5 Incompatible Materials
Materials to avoid
No data available.

10.6 Hazardous Decomposition Materials
Hazardous decomposition products
None.

11. Toxicological Information

11.1 Additional Information
Other information (section 16)
The product does not meet the criteria for classification as hazardous as laid down in (EC) No. 1272/2008 (CLP) for any toxicological endpoint.

12. Ecological Information

12.1 Persistence and Degradability
Biodegradability
Product is inorganic. The methods for determining the biological degradability are not applicable to inorganic substances.

12.2 Bioaccumulative Potential
Bioaccumulation
Not applicable. Product / Substance is inorganic.

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 Transport Information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN</td>
<td>-</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>Not subject to classification.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not subject to classification.</td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>Not subject to classification.</td>
</tr>
</tbody>
</table>

15. Regulatory Information

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

<table>
<thead>
<tr>
<th>Additional regulations</th>
<th>Specific national regulations must be considered.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water hazards class</td>
<td>Non-hazardous to water (nwg).</td>
</tr>
<tr>
<td>(self-classification)</td>
<td></td>
</tr>
</tbody>
</table>

15.2 Chemical Safety Assessment

<table>
<thead>
<tr>
<th>Safety assessment</th>
<th>The PSI has been compiled in compliance with (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP). Conclusion from CSA: non-hazardous.</th>
</tr>
</thead>
</table>

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 OMEGA MINERALS’ 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.

16.3 Reasons for Amendments

Harmonisation of version number.

This Product Safety Information sheet replaces the Version 02 from 30.08.2013.