



SAFETY DATA SHEET

Version: 07 / EN

Revision Date: 16.07.2020

ELMINAS SPHERES®

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

1.1. Product Identifier

Commercial product name	ELMINAS SPHERES® HCMS (Hollow Ceramic Microspheres)
REACH registration number	01-2119563688-21-0005

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	ELEMENT MINERALS Madencilik Yapı Kimyasalları San. ve Dış. Tic. Ltd. Şti. Konutkent Mah. 3028 Cad. No: 2C/20 06810 Ankara / TURKEY
E-mail (competent person)	info@elminas.com

1.4. Emergency Telephone Number

Emergency telephone number	+90 (312) 504 51 15
Mobile	+90 533 931 29 56

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to: Regulation (EC) No. 1272/2008	Not classified according to CLP.
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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.
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3. Composition / Information on Ingredients

3.1. Chemical Characterization

EC name	Ashes (residues), Cenospheres, Thermospheres.
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 or 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 itself, its combustion products, or released gases	The product is stable if stored and handled as prescribed / indicated.
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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.
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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.
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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 and 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

Additional information about design of technical systems

No further data, see section 7.

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: 50µg/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 / Off-White / Light Grey / Grey / Dark Grey
Odour	Barely perceptible odour
pH value	7.0 - 9.9 (%10 w/v)
Melting point (°C)	Approx. 1200 / 1600
Boiling point (°C)	Not applicable
Flash point (°C)	Not combustible
Risk of explosion	Not explosive
Density (g/cm ³)	0.7 - 0.9
Water solubility (g/L)	0.051 - 0.068 g/L (0.17 - 0.23 w/w)
Solubility	Practically insoluble
Autoflammability	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

UN

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ADR/RID

Not subject to classification.

IMDG

Not subject to classification.

ICAO/IATA

Not subject to classification.

15. Regulatory Information

15.1. Safety, Health and Environment 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).

15.2. Chemical Safety Assessment

Safety assessment

The SDS 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

Reasons for amendments: Harmonization of version numbers

Replaces version dated: 10.07.2020

16.2. Key Literature References and Sources for Data

Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

16.3. Legal Disclaimer

The information given in this SDS is to the best of ELEMENT 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.