

<p>EKO EXPORT S.A. Ul. Strażacka 81 43-382 Bielsko-Biała Polska</p>	<p style="text-align: center;"><i>Product Safety Information</i></p> <p>Version: EN Last revision: 01.09.2015, Prepared: 09.08.2011</p>
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Product Safety Information
CENOSPHERES

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Commercial Product Name:	Microspheres / Cenospheres
Synonyms:	Cenospheres, Hollow Ceramic, Microspheres
CAS no.	93924-19-7
EC-No.	300-212-6
REACH registration number	01-2119563688-21-0000

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

Use	Filler
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Details of the supplier of the product safety information

Company designation	EKO EXPORT SPÓŁKA AKCYJNA Strażacka 81 43-382 Bielsko-Biała, Poland
	Telephone: +48 33 81 96 288 Fax +48 33 81 96 287 e-mail.: info@ekoexport.pl
E-mail	k.jozwik@ekoexport.com
Emergency telephone number	REACH- and CLP helpdesk: http://echa.europa.eu/help/echahelp_de.asp

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	not classified according to CLP
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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

Chemical characterization	hollow ceramic microspheres of amorphous aluminosilicate (or aluminosilicate)
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4. First aid measures

Description of first aid measures

General advice	In all cases of doubt, or when symptoms persist, seek medical advice.
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If inhaled	Move person to fresh air. Get medical advice if you feel unwell.
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.

Indication of any immediate medical attention and special treatment needed

Immediate medical attention First Aid, decontamination, treatment of symptoms.

5. Firefighting measures

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

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 handled as prescribed/indicated.

Advice for firefighters

Special protective equipment for firefighting self-contained respirator (breathing apparatus) (DIN EN 133).

Additional information on firefighting No special measures are required

6. Accidental release measures

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.

Environmental precautions

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

Methods and material 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.

Reference to other sections

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

7. Handling and storage

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	The product is not: Combustible. Oxidizing. Explosive No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

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 P 2
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, smoke. Wash hands before breaks and after work
Consumer exposure controls	A) occupational exposure limit values:(American Conference of Governmental Industrial Hygienists ACGIH, 2010) 8 h TWA : 10 mg/m ³ (Particulates (insoluble or poorly soluble) Not Otherwise Specified, PNOS) (E: inhalable fraction of dust) 8 h TWA : 4 mg/m ³ (PNOS) (A: respirable fraction of dust) B) Environmental exposure controls (Dir 2008/50/EC) PM10: 50µg/m ³ * Limit value, One day (1.1.2010) PM10: 20 µg/m ³ Limit value, calender year PM2.5: 25 µg/m ³ target value (1.1.2010) PM2.5: 25 µg/m ³ Limit value (1.1.2015) * not to be exceeded more than 7 times a calender year

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	solid
Form	hollow microspheres
Colour	off-white, grey brown
Odour	barely perceptible odour
Odour threshold :	not applicable
pH	
remarks:	Raw Cenospheres in leachate
pH:	5.5 - 6.4 (30 min - 24 h)
remarks:	processed Cenospheres in leachate
pH:	6.5 - 6.9 (30 min - 24 h)
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	1 g/cm ³
remarks:	Raw Cenospheres 0.7 g/cm ³
remarks:	processed Cenospheres (dried at: 105°C)
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
Autoinflammability	No self-ignition up to the melting point.
Decomposition temperature	No data available
Viscosity, dynamic	not applicable
Oxidation	Not oxidising.

Other information

Bulk density	0.4 g/cm ³
remarks:	Raw Cenospheres, processed Cenospheres (dried at: 105°C)
Oxidizing properties	Not oxidising.

10. Stability and reactivity

Reactivity

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

Chemical stability

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

Possibility of hazardous reactions

Hazardous reactions The product is stable if stored and handled as advised.

Conditions to avoid

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

Incompatible materials

Materials to avoid No data available

Hazardous decomposition products

Hazardous decomposition products None

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11. Toxicological information

Additional information

Other information (chapter 11.) 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

Persistence and degradability

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

Bioaccumulative potential

Bioaccumulation not applicable. Product/Substance is inorganic.

Mobility in soil

Mobility: No data available

Results of PBT and vPvB assessment

Results of PBT characteristics determination Product/Substance is inorganic

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

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

	Land transport GGVS/ ADR/RID	Marine transport IMDG/ GGVSee	Air transport ICAO/IATA
remarks	No dangerous good in sense of this transport regulation	No dangerous good in sense of this transport regulation.	No dangerous good in sense of this transport regulation.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations Specific national regulations must be considered.
 Water hazard class (self-classification) non-hazardous to water (nwg)

Chemical safety assessment

Safety assessment The PSI has been compiled in compliance with (EC) No. 1907/2006

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(REACH) and (EC) No. 1272/2008 (CLP). Conclusion from CSA:
nonhazardous

16. Other 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.