

Cenosphere (aluminosilicate microsphere)

MATERIAL SAFETY DATA SHEET

Basis: European Commission Order Nr 453/2010 as of May 20, 2010 to EU Order Nr 1907/2006 regarding REACH.

1. Product and Supplier Identification

Product name: Cenosphere
Other name: Aluminosilicate Microsphere, Hollow Flying Ash Microsphere
Application: Lightweight high-temperature resistant filler for building chemistry, car, oil and gas drilling, refractory industries and others

Producer Identification:

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E-mail: office@imc-alloys.cz
REACH Numer: 01-2119563688-21-0016

2. Composition / Ingredients Information

Composition: Hollow cenospheres consisting of amorphous alumino-silicate. Not considered to have any hazardous components.
CAS Number: 93924-19-7
EINECS Number: 300-212-6

3. Hazard Identification

Product identification: The product does not meet the criteria for hazard classification in accordance with Directive 67/548/EEC (DSD) and Regulation (EC) No1272/2008 (CLP).
Hazard symbol/ Hazard pictogram: N/A (not applicable)
Symbol letter/ Danger Indication: N/A
R-/H- phrases: N/A
S-/P- phrases: N/A

4. First Aid Measures

Inhalation: Remove exposed person from dusty area, ensure supply of fresh air.
Skin contact: Wash contaminated skin with water and/or a mild detergent.
Eye contact: Rinse eyes with water/saline solution. If discomfort persists, obtain medical attention
Ingestion: If ingested, drink plenty of water and seek medical advice

5. Fire Fighting Measures

Special hazards: Product is not combustible and there is no inherent risk of explosion.
Extinguishing media: N/A

6. Accidental Release Measures

Personal precautions: Avoid contact with skin, eyes, clothing. Avoid inhalation and ingestion. Refer to section 8.
Environmental precautions: Avoid handling that generates build-up of dust. Avoid exposure to dust. Released material should be collected in suitable containers.

7. Handling and Storage

Handling: Avoid generation of airborne dust. Provide good ventilation in working areas. Protective equipment must be used if exposure limits are exceeded.
Storage: Product should be stored in closed containers, bag etc. Keep away from hydrofluoric acid (HF).
Not to be stored at temperatures below 0°C

8. Exposure Controls/Personal Protection

A) Occupational exposure controls:

Personal Protective Equipment:

Eyes/face: Avoid eye contact. Wear chemical safety goggles.
 Skin: Avoid skin contact. Gloves and protective clothing should be worn to prevent exposure.
 Respiratory protection: Avoid inhalation of dust. Ensure good dust ventilation during use. Wear particulate respirator according to EN 149 FFP 2S/3S during dust generating operations. Airborne concentrations should be kept to the lowest levels possible. Atmospheric levels should be maintained below the exposure guideline

Occupational Exposure Limits (ACGIH¹, 2012): ACGIH TLV

Substance	[CAS No.]	8hr TWA		15 minute STEL		Notations
		ppm	mg/m ³	ppm	mg/m ³	
PNOS	-	-	10 ^(I) /3 ^(R)	-	-	-

¹⁾ American Conference of Governmental Industrial Hygienists. ²⁾ Particulates (insoluble or poorly soluble) Not Otherwise Specified. The product is considered to be PNOS. Specific TLVs for the individual substances have not been established or have been withdrawn, respectively. ^(I) Inhalable fraction, ^(R) Respirable fraction

B) Environmental exposure controls:

Target value and limit value for PM10 and PM2.5 (Directive 2008/50/EC):

	Average period	Limit value	By date
PM ₁₀	One day	50 µg/m ³ *)	1 January 2005
PM _{2.5}	Calendar year	40 µg/m ³	1 January 2005
		Target value	1 January 2010
PM _{2.5}	Calendar year	25 µg/m ³	
		Limit value	
PM _{2.5}	Calendar year	25 µg/m ³	1 January 2015

*) Not to be exceeded more than 35 times a calendar year.

9. Physical and Chemical Properties

Form: Solid, hollow, fine particle powder. Particle size range 5-300 µm
 Color: Grey, light-grey, white or light-brown □
 Odor: A slightly earthy odor may be present □
 Flash point: N/A/
 Boiling point: N/A
 Melting point: 1200 – 1400 °C □
 Water solubility: insoluble
 Organic solvents solubility: insoluble / slightly insoluble
 Specific Gravity (water =1): 0.35 – 0.85 g/cm³
 Aqueous extract pH: 6-8

10. Stability and Reactivity

Conditions to avoid: See below
 Materials to avoid: Hydrofluoric acid (HF).
 Hazard decomposition product: The product might react with hydrofluoric acid (HF) forming toxic gas (SiF₄).

11. Toxicological Information

The Product does not meet the criteria for hazard classification according to Directive 67/548/EEC (DSD) and Regulation (EC) No1272/2008 (CLP).

Acute effects:

Ingestion: Finely divided dust from the product may cause mild irritation and dehydration of mucous membranes
 Inhalation: Finely divided dust from the product may cause mild irritation and dehydration of mucous membranes
 Skin contact: Finely divided dust from the product may cause mechanical irritation and dehydration
 Eye contact: Finely divided dust from the product may cause mechanical irritation and dehydration

Chronic effects:

Not listed by NTP, IARC or OSHA US as carcinogen

Exposure to mutagen
reproductive cell: not classified as mutagenic

12. Ecological Information

The product is not characterized as environmentally dangerous.

Mobility: The product is not mobile under normal environmental conditions
Persistence: Not relevant for inorganic substances
Bioaccumulation: Not relevant
Eco-toxicity: The product does not meet the classification criteria for eco-toxicological endpoints in accordance with Directive 67/548/EEC (DSD) and Regulation (EC) 1272/2008 (CLP)

13. Disposal Consideration

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.

Disposal Code: 10 01 81 (Product is not classified in EU Disposals Catalogue)
Identification: EC:300-212-6 / CAS: 93924-19-7

14. Transportation Information

UN: Not subject to classification
ADR / RID: Not subject to classification
IMDG: Not subject to classification
ICAO: Not subject to classification

15. Regulatory Information

A chemical safety assessment (CSA) has been carried out for the product in accordance with Regulation (EC) 1907/2006 (REACH). The text of this Material Safety Data Sheet is prepared in compliance with: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and subsequent amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

16. Other Information

According to Chapter 1.5.2 of the UN Globally Harmonized 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 (SDS) are only required for substances and mixtures that meet the harmonized criteria for physical, health or environmental hazards. Since this product does not meet these criteria, a SDS according to 453/2010/EC is not issued. In order to communicate relevant HSE-(health, safety and environmental-) 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 annexed to the SDS. However, according to REACH Annex I, section 0. (Introduction), subsection 0.6. no 4 and 5, exposure scenarios are only required for hazard-classified substances or mixtures. Since this product is not hazard-classified according to CLP, there is no requirement for exposure scenarios.

Legal Disclaimer:

The Product Safety Information (PSI) given is to the best of producer's knowledge and believed accurate and reliable as of the date 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.