



1. Identification of the Product and Supplier

Product name:	Cenospheres
Product application:	Lightweight fillers for cementitious slurries.
Address/Phone No.:	Elkem ASA, Silicon Products P.O. Box 334 Skøyen N-0213 Oslo, Norway Telephone: + 47 22 45 01 00 Telefax: + 47 22 45 01 11 https://www.elkem.com/silicon-products/
Contact:	sds.esm@elkem.no
REACH registration number:	01-2119563688-21-0006
REACH and CLP helpdesk:	REACH and CLP website: https://echa.europa.eu/support/helpdesks/
Emergency Phone No.:	not applicable for non-hazardous substances.

2. Hazards Identification

Classification of the substance:	The product does not meet the criteria for hazard classification according to Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7 th rev.).
Hazard pictogram:	N/A (not applicable)
Signal word:	N/A (not applicable)
Hazard statements:	N/A (not applicable)
Precautionary statements:	N/A (not applicable)

3. Composition/Information on Ingredients

EINECS navn:	Ashes (residues), Cenospheres
Synonym:	Hollow ceramic microspheres consisting of amorphous aluminosilicate.
CAS No.:	93924-19-7
EINECS No.:	300-212-6

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4. First Aid Measures

Inhalation: Remove exposed person from dusty area. 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: Not applicable.

5. Fire Fighting Measures

The product is not combustible and there is no inherent risk of explosion.

Extinguishing media: Not applicable Depending on surrounding fire.

6. Accidental Release Measures

Avoid handling that generates build up of dust.
Avoid exposure to dust of the product. Released material should be collected in suitable containers.

7. Handling and Storage

Handling: Avoid dust generation. See section 8.
Storage: Keep away from hydrofluoric acid (HF). Not to be stored at temperatures near to or below 0 °C.

8. Exposure Controls/Personal Protection

A) Occupational exposure controls:

Avoid inhalation of dust. Ensure good dust ventilation during use. Wear a particulate respirator according to EN 149 FFP 2S/3S during dust generating operations. Use protective gloves and eye protection. Facilities for eye flushing should be available.



Occupational Exposure Limits (ACGIH¹, 2016):

Substance	[CAS No.]	8hr TWA		ACGIH TLV 15 minute STEL		Notations
		ppm	mg/m ³	ppm	mg/m ³	
PNOS ²	-	-	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

Limit value for PM₁₀ and PM_{2.5} (Directive 2008/50/EC):

	Averaging period	Limit value
PM ₁₀	One day	50 µg/m ³ ★
PM ₁₀	Calendar year	25 µg/m ³
PM _{2.5}	Calendar year	15 µg/m ³

★ Not to be exceeded more than 30 times a calendar year.

9. Physical and Chemical Properties

Form:	Solid, hollow, fine particle powder. Particle size range (5-300) µm.
Colour:	Gray, off-white or gray/brown.
Odour:	A slightly earthy odour may be present.
Flash point:	Not applicable
Boiling point:	Not applicable
Melting Point (°C):	1200 - 1400
Solubility (Water):	Insoluble/Slightly soluble
Solubility (Organic solvents):	Insoluble/Slightly soluble
Specific Gravity (water = 1):	0.60 - 0.85
pH value:	6 - 8 in a 50 % solid concentration.

10. Stability and reactivity

Conditions to avoid:	See below
Materials to avoid:	Hydrofluoric acid (HF).
Hazardous decomposition product(s):	The product might react with hydrofluoric acid (HF) forming toxic gas (SiF ₄).

11. Toxicological Information

The product does not meet the criteria for hazard classification according to Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7th rev.).

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.

12. Ecological Information

the product is not characterised as dangerous for the environment.

MOBILITY:	The product is not mobile under normal environmental conditions.
PERSISTENCE:	Not relevant for inorganic substances.
BIOACCUMULATION:	Not relevant.
ECOTOXICITY:	The product does not meet the classification criteria for ecotoxicological endpoints in accordance with Regulation (EC) 1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7 th rev.).

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.

14. Transport Information

UN	-
IMDG/IMO	Not subject to classification
ADR/RID	Not subject to classification
ICAO/IATA	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 Product Safety Information 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, Authorisation and Restriction of Chemicals (REACH).
- 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).
- UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 7th rev.).

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 harmonised criteria for physical, health or environmental hazards. Since this product does not meet these criteria, an SDS according to (EU) 2015/830 is not issued. In order to communicate relevant HSE-(health, safety and environmental-) information, this product safety information (PSI) is provided instead.

In accordance with REACH article 31(5), safety data sheets shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market. This obligation, however, only applies for hazard-classified products which require a formal SDS. Since this product is not hazard-classified, the product safety information (PSI) is, in accordance with current regulation, provided in English language only.

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.

Changes from revision 00 to 01: New corporate address. Paragraph 2 in section 16. Updated ACGIH values.
Changes from revision 01 to 02: generic e-mail address inserted, removed reference to DSD directive, removed legal disclaimer, inserted reference to (EU) 2015/830 and GHS. Links updated.
Changes from revision 02 to 03: Corporate address updated, link to GHS inserted.
Changes from revision 03 to 04: company info (section 1) and limit values (section 8 B) updated.