



## 1. Identification of the Product and Supplier

Product name: **AloxX™-Spheres 99**

Product application: Refractory material

Address/Phone No.: **Elkem ASA, Silicon Products**  
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Contact: [support.siliconproducts@elkem.com](mailto:support.siliconproducts@elkem.com)

REACH registration number: 01-2119529248-35-0289

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, 10<sup>th</sup> 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

### Constituents:

| CHEMICAL NAME                                     | CAS #     | EINECS #  | % w/w |
|---|-----------|-----------|-------|
| Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) | 1344-28-1 | 215-691-6 | > 99  |

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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: Rinse mouth thoroughly. If discomfort persists, obtain medical attention.

#### 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 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 in a dry, cool and well-ventilated place.  
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 CE-marked 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 (ACGIH <sup>1)</sup>, 2016):

| Substance  | [CAS No.] | 8hr TWA |                                     | ACGIH TLV<br>15 minute STEL |                   | Notations |
|--|-----------|---------|-------------------------------------|-----------------------------|-------------------|-----------|
|  |           | ppm     | mg/m <sup>3</sup>                   | ppm                         | mg/m <sup>3</sup> |           |
| PNOS <sup>2)</sup>                                     | -         | -       | 10 <sup>(I)</sup> /3 <sup>(R)</sup> | -                           | -                 | -         |
| Aluminium metal [7429-90-5]<br>and insoluble compounds | -         | -       | -                                   | -                           | -                 | A4        |

<sup>1)</sup> American Conference of Governmental Industrial Hygienists

<sup>2)</sup> Particulates (Insoluble or Poorly Soluble) Not Otherwise Specified.

<sup>(I)</sup> Inhalable fraction

<sup>(R)</sup> Respirable fraction

## B) Environmental exposure controls

### Limit value for PM<sub>10</sub> and PM<sub>2.5</sub> (Directive 2008/50/EC):

|                   | Averaging period | Limit value            |
|-------------------|------------------|------------------------|
| PM <sub>10</sub>  | One day          | 50 µg/m <sup>3</sup> ★ |
| PM <sub>10</sub>  | Calendar year    | 25 µg/m <sup>3</sup>   |
| PM <sub>2.5</sub> | Calendar year    | 15 µg/m <sup>3</sup>   |

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

## 9. Physical and Chemical Properties

|                              |           |
|------------------------------|-----------|
| Form:                        | Powder    |
| Colour:                      | White     |
| Odour:                       | Odourless |
| Refractoriness (°C):         | 1960      |
| Melting point (°C):          | 2005      |
| Thermal conductivity (W/m.k) | 5.908     |
| Specific gravity:            | 3.96      |

## 10. Stability and reactivity

Conditions to avoid: No specific conditions are likely to result in hazardous situations.

Materials to avoid: Not applicable

Hazardous Decomposition Product(s): Not applicable

## 11. Toxicological Information

The product does not meet the criteria for hazard classification according to Regulation (EC) No 1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 10<sup>th</sup> rev.).

### Acute effects:

|               |  |
|---------------|--|
| INGESTION:    | Finely divided dust may cause mechanical irritation and dehydration of mucous membranes. |
| INHALATION:   | Finely divided dust may cause mechanical irritation and dehydration of mucous membranes. |
| SKIN CONTACT: | Finely divided dust may cause mechanical irritation and dehydration.                     |
| EYE CONTACT:  | Finely divided dust may cause mechanical irritation and dehydration.                     |

### Chronic effects:

For general dusts, chronic obstructive lung disease is suspected following long term exposure (years) for concentrations above recommended occupational exposure limits.

**Endocrine disrupting properties:** The product is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU)2017/2100 or Commission Regulation (EU)2018/605.

## 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, 10 <sup>th</sup> rev.). |

Endocrine disrupting properties: The product is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU)2017/2100 or Commission Regulation (EU)2018/605.

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## 13. 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.

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## 14. Transport Information

|           |                               |
|-----------|-------------------------------|
| UN        | -                             |
| IMDG/IMO  | Not subject to classification |
| ADR/RID   | Not subject to classification |
| ICAO/IATA | Not subject to classification |

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## 15. Regulatory Information

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, 10<sup>th</sup> rev.).

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## 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) 2020/878 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.

Changes from revision 01 to 02: links updated, reference to GHS inserted.

Changes from revision 02 to 03: company info (section 1) and limit values (section 8 B) updated.

Changes from revision 03 to 04: company info; logo, email and web address (section 1), GHS reference 9<sup>th</sup> ed., reference to EU 2020/878, assessment EDC properties (section 11 & 12)

Changes from revision 04 to 05: trademark included, reference to GHS 10<sup>th</sup> ed.

AloxX™ is a trademark of Elkem ASA.