



SAFETY DATA SHEET

SDS-732-rev1 Issue Date: 07/14/2026

ALUMINUM OXIDE CERAMIC SPHERES

1. IDENTIFICATION OF SUBSTANCE

1.1 PRODUCT NAME(S)	Aluminum Oxide Ceramic Spheres
1.2 PRODUCT IDENTIFIER(S)	ALOMS
1.3 INTENDED USE	Industrial and research applications
1.4 SUPPLIER'S DETAILS	Cospheric LLC, PO Box 636, Somis, CA 93066 info@cospheric.com www.cospheric.com
1.5 EMERGENCY TELEPHONE	+1-805-687-3747 Monday-Friday, 08:00-17:00 PST [UTC-8]

2. HAZARDS IDENTIFICATION

2.1 HAZARD CLASSIFICATION	Not classified according to Regulation (EG) No. 1272/2008 (CLP).
2.2 LABEL ELEMENTS	Not subject to labelling according to Regulation (EG) No. 1272/2008 (CLP).

2.3 HAZARDS NOT OTHERWISE CLASSIFIED The product does not contain any substances with PBT or vPvB properties according to REACH Annex XIII. Risk of slipping if product is spilled.

Note: The product is an article as defined in Article 3 No. 3 of Regulation (EC) No. 1907/2006 (REACH), is not classified as dangerous or does not contain any substances classified as dangerous, so there is no obligation to prepare a safety data sheet in accordance with the requirements of REACH Art. 31. The following information corresponds to the obligation under REACH Art. 32 for substances or mixtures for which no safety data sheet is required and has been prepared in accordance with REACH Annex II as amended by Regulation (EU) 2020/878 by Annex II.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	% (W/W)
Aluminum oxide (Al ₂ O ₃)	1344-28-1	≥ 99.3 %
Other		<0.7%

Note: The product is a crystalline inorganic solid composed of the listed individual substances. The material obtained by thermal treatment is inert and its properties are therefore not identical to those of its components.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye contact	Rinse with plenty of water. Seek medical advice if symptoms persist.
Skin contact	If symptoms occur, wash with soap and water.
Inhalation	If symptoms occur, move to fresh air. Seek medical advice if necessary.
Ingestion	If symptoms occur, seek medical advice.

4.2 IMPORTANT SYMPTOMS/EFFECTS, ACUTE OR DELAYED

Inhalation of high concentrations of dust may cause respiratory irritation.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

The product itself is neither combustible nor explosive. Extinguishing agents have to be coordinated with the surrounding fire.



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5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None known.

5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Follow precautions for safe handling described in this safety data sheet (Section 8).

6.2 ENVIRONMENTAL PRECAUTIONS

Dispose of any waste according to prescribed federal, state, local and competent authority guidelines.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP

Collect spillage with shovel, broom or the like. Transfer to a container for disposal.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid handling practices that cause dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimize the risk of inhalation of dust.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in tightly closed original container in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

This product is not a hazardous material. Mechanical dry processing of the product can generate a risk of dust. The exposure limit for nuisance dust is referenced.

Nuisance Dust (Particles Not Otherwise Regulated)

OSHA Permissible Exposure Limit (PEL)	Respirable fraction	5mg/m3
	Total dust	15mg/m3

8.2 ENGINEERING CONTROLS

Avoid handling practices that cause dust formation. Use local exhaust ventilation to prevent or control exposure.

8.3 INDIVIDUAL PROTECTION MEASURES (PERSONAL PROTECTIVE EQUIPMENT)

Respiratory protection: When handling practices cause dust formation, select respiratory protection appropriate for the particle size of the material.

Eye/face protection: Chemical goggles.

Skin protection: Wear suitable protective clothing and gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES



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Appearance	Solid white spherical particles
pH value:	Non-applicable
Maximum Operating Temperature (without load)	1790 degrees C
Flash point:	Non-applicable
Vapor pressure:	Non-applicable
Vapor density:	Non-applicable
Specific weight:	$\geq 3.8 \text{ kg/dm}^3$
Bulk density:	$\geq 2.3 \text{ kg/dm}^3$
Water solubility:	Insoluble in water
Viscosity:	Non-applicable
Auto-ignition temperature	Not-applicable
Decomposition temperature	No information available
Odor	Odorless
Melting point	Not-applicable
Initial boiling point	Not-applicable
Evaporation rate	Not-applicable
Partition coefficient	Not-applicable

10. STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions of use.
Chemical stability	Stable under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Likely route(s) of exposure	Dermal, inhalation if dust is formed during processing
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SIGNS AND SYMPTOMS OF EXPOSURE

Eye contact	Direct contact with eyes may cause temporary mechanical irritation. Signs and symptoms may include pain, redness.
Skin contact	Direct contact with skin may cause sensitization in hypersensitive individuals. Signs and symptoms may include redness, pain and itching.
Inhalation	Inhalation above recommended exposure levels may cause respiratory irritation including cough.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident. May cause discomfort if swallowed.

TOXICOLOGICAL DATA

Acute toxicity	No information available/not sufficient for classification
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Skin corrosion/irritation	No information available/not sufficient for classification
Serious eye damage/eye irritation	No information available/not sufficient for classification
Respiratory or skin sensitization	No information available/not sufficient for classification
Germ cell mutagenicity	No information available/not sufficient for classification
Carcinogenicity	Not listed as a carcinogen (OSHA, NTP, IARC)
Reproductive toxicity	No information available/not sufficient for classification
STOT-single exposure	No information available/not sufficient for classification
STOT-repeated exposure	No information available/not sufficient for classification
Aspiration hazard	No information available/not sufficient for classification

12. ECOLOGICAL INFORMATION

Toxicity	No information available
Persistence and degradability	The product is insoluble and the inorganic substances it contains are not bioavailable.
Bioaccumulation potential	The product is insoluble and the inorganic substances it contains are not bioavailable, thus not bioaccumulative.
Mobility in soil	The product is insoluble and therefore not mobile.
Results of PBT and vPvB assessment	The product does not contain PBT or vPvB substances according to REACH Annex XIII criteria.
Endocrine disrupting properties	No endocrine disrupting effects are known.
Other adverse effects	Ozone depletion potential and greenhouse effect are not known.
Ecological and ecotoxicological data are not available.	
A threat to the environment is not to be expected if the product is handled and disposed of safely.	

13. DISPOSAL CONSIDERATIONS

Dispose of any waste according to prescribed federal, state, local and competent authority guidelines.

14. TRANSPORTATION INFORMATION

This product is not subject to regulations for the transport of hazardous materials (DOT, IATA, IMO).

15. REGULATORY INFORMATION

This SDS has been prepared to meet the US OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. EU REACH COMPLIANCE DECLARATION

The product(s) listed above do not contain any of the REACH SVHC compounds in concentrations above 1000PPM.

17. OTHER INFORMATION

The information contained in this document is correct to the best of our knowledge at the date of publication. It should not be viewed as all inclusive, but as a guide only. It does not represent any guarantee of the properties of the



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product. Cospheric LLC shall not be held liable for any damage resulting from handling of or from contact with the above product. For these reasons, it is important that product users carry out their own tests to satisfy themselves as to the suitability of the safety precautions for their own intended applications.

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