

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



SILICON OXIDE

Version: 1
Revision date: 07/05/2018

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: SILICON OXIDE
Chemical Name: SILICON OXIDE
CAS No: 69012-64-2
EC No: 273-761-1
Registration No: 01-2119486866-17-XXXX

1.2 Relevant identified uses of the substance and uses advised against.

Not available.

1.3 Details of the supplier of the safety data sheet.

Company: **ALDEBARÁN SISTEMAS SL**
Address: C/Jerónimo Zurita, 10, entlo izda, 50001
City: Zaragoza
Province: Zaragoza
Telephone: 0034976796134
E-mail: aldebaran@aldebaransistemas.com

1.4 Emergency telephone number: 0034915620420 (Available 24 hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance.

The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

2.2 Label elements.

Contains: Silicon oxide

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Chemical Name: Diatomaceous silica, flux-calcined
CAS No: 69012-64-2
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3.2 Mixtures.

Not Applicable.

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SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

Inhalation.

Remove exposed person from dusty area. Fresh air.

Eye contact.

Rinse eyes with water/saline solution. If discomfort persists, obtain medical attention

Skin contact.

Wash contaminated skin water and/or a mild detergent.

Ingestion.

Not applicable.

SECTION 5: FIREFIGHTING MEASURES.

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

5.1 Extinguishing media.

Suitable extinguishing media:

Not applicable Depending on surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

Avoid exposure to dust of the product. Released material should be collected in suitable containers.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

Avoid dust generation. See section 8.

7.2 Conditions for safe storage, including any incompatibilities.

Keep away from hydrofluoric acid (HF). Not to be stored at temperatures near to or below 0°C.

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

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8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	
Breathing protection:	
If the recommended technical measures are observed, no individual protection equipment is necessary.	
Hand protection:	
If the product is handled correctly, no individual protection equipment is necessary.	
Eye protection:	
If the product is handled correctly, no individual protection equipment is necessary.	
Skin protection:	
PPE:	Work footwear.
Characteristics:	«CE» marking, category II.
CEN standards:	EN ISO 13287, EN 20347
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Ultrafine amorphous powder
Colour: Grey off white
Odour: Odourless
Odour threshold: N.A./N.A.
pH: N.A./N.A.
Melting point: 1550-1570 °C
Boiling Point: N.A./N.A.
Flash point: N.A./N.A.
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.
Relative density: 2,25
Solubility: Insoluble/Slightly soluble
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

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SECTION 10: STABILITY AND REACTIVITY.

Conditions to avoid.

See below

Incompatible materials.

Hydrofluoric acid (HF)

Hazardous decomposition products.

The product reacts with hydrofluoric acid (HF) forming toxic gas (SiF₄).

Heating the product above 1000°C can result in the formation of crystalline SiO₂ modifications as cristobalite/tridymite which may cause pulmonary fibrosis (silicosis).

SECTION 11: TOXICOLOGICAL INFORMATION.

The product does not meet the criteria for hazard classification according to Directive 67/548/EEC (DSD) and Regulation (EC) No 1272/2008 (CLP).

Accute 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:

Inhalation of microsilica dust is considered to entail minimal risk of pulmonary fibrosis (silicosis). However, chronic obstructive lung disease is suspected following long term exposure (years) for concentrations above recommended occupational exposure limits.

SECTION 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 substance.

Bioaccumulation: Not relevant.

Ecotoxicity: The product does not meet the classification criteria for ecotoxicological endpoints in accordance with Directive 67/548/EEC (DSD) and Regulation (EC) 1272/2008 (CLP).

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SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

The material should be recovered for recycling if possible.

This material is not classified 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.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR: Transportation is not dangerous.

IMDG: Transportation is not dangerous.

ICAO/IATA: Transportation is not dangerous.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

14.6 Special precautions for user.

Transportation is not dangerous.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

A chemical safety assessment (CSA) has been carried out for the substance 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.
- Regulation (EC) No 172/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

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SECTION 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) (b) of (EC) No 1272/2008 (CLP), which amends REACH article 1(1), safety data sheets (SDS) are only required for substances and mixtures that meet the harmonised criteria for physical, health or environment 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 environment-) 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 substance or mixtures. Since this product is not hazard-classified according to CLP, there is no requirement for exposure scenarios.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.