



Silicon Dioxide  
Safety Data Sheet  
Technical Specifications  
Intolerance Data

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# 1. Safety Data Sheet



## 1.1 Description

<b>Product Name</b>	Silicon Dioxide
<b>Product Code</b>	SLD
<b>Supplier</b>	LFA Machines Oxford Ltd. Unit 4b, 26-27 Murdock Road Bicester, Oxfordshire OX26499 United Kingdom Tel: +44 (0) 1869 250 234

## 1.2 Ingredients/Identity Information

<b>Components</b>	Silicon Dioxide
<b>% in Product</b>	100
<b>CAS Number</b>	7631-86-9
<b>Formula</b>	N/A
<b>EINECS Number</b>	N/A

## 1.3 Hazards Identification



<b>Potential Acute Health Effects</b>	Slightly hazardous in case of eye contact (irritant), of skin contact (may cause irritation), of ingestion (may cause irritation), and of inhalation (may cause irritation).
<b>Potential Chronic Health Effects</b>	May cause cancer in humans. Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/ fibrosis (silicosis).
<b>Carcinogenic Effects</b>	Not available
<b>Mutagenic Effects</b>	Not available
<b>Teratogenic Effects</b>	Not available
<b>Developmental Toxicity</b>	Not available
<b>Hazardous Symbol/ Pictograms</b>	Not applicable
<b>Signal Words</b>	Not applicable

Repeated or prolonged exposure is not known to aggravate medical condition.

## 1.4 First Aid Procedures



<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops.
<b>Serious Skin Contact</b>	Get medical attention.
<b>Inhalation</b>	If inhaled, move to fresh air. If unable to breathe, give artificial respiration/CPR. If breathing is difficult, give oxygen. Get medical attention if irritation develops.
<b>Serious Inhalation</b>	Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Note to physician: treat symptomatically and supportively.
<b>Serious Ingestion</b>	Get medical attention.

## 1.5 Fire and Hazard Data



<b>Flammability of Product</b>	Material will not burn. Substance is non-combustible.
<b>Temperature</b>	N/A
<b>Flash Points</b>	N/A
<b>Flammable Limits</b>	N/A
<b>Products of Combustion</b>	N/A

### Firefighting Media and Instructions

#### Small Fire

Use extinguishing media most appropriate for the surrounding fire.

#### Large Fire

Use extinguishing media most appropriate for the surrounding fire.

#### NFPA Rating (estimated)

Health 1. Flammability 0. Instability 0.



## 1.6 Release/Spill Measures

### Small Spill

Use proper protective equipment as indicated in section 1.8. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

### Large Spill

Use proper protective equipment as indicated in section 1.8. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

## 1.7 Storage

### Precautions

Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

### Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 1.8 Control Methods/PPE

### Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

### Exposure Limits

0.025 mg/m<sup>3</sup> TWA (respirable fraction)

### Personal Protective Equipment

- Appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Wear appropriate protective gloves to prevent skin contact.
- Wear appropriate protective clothing to prevent skin exposure.
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## 1.9 Physical and Chemical Properties



<b>Physical State</b>	Powder
<b>Color</b>	White to off-white
<b>Odor</b>	Characteristic
<b>Boiling Point</b>	2230°C
<b>Freezing/Melting Point</b>	1610°C

## 1.10 Stability and Reactivity

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available
<b>Conditions of Instability</b>	Incompatible materials and dust generation
<b>Incompatible Materials</b>	Strong oxidizing agents and strong bases
<b>Hazardous Decomposition Products</b>	Oxides of silicon
<b>Polymerization</b>	Has not been reported



## 1.11 Toxicological Information



<b>Toxicity Data</b>	RTECS VV7330000
<b>LD50/LC50</b>	Not available
<b>Human TCLo Inhalation</b>	16 mppcf/8H/17.9Y intermittent
<b>Toxic Effects</b>	Fibrosis and pneumoconiosis
<b>Carcinogenicity</b>	ACGIH: Suspected human carcinogen NTP: Known carcinogen IARC: Group 1 carcinogen
<b>Teratogenicity</b>	No information found
<b>Reproductive Effects</b>	No information found
<b>Mutagenicity</b>	Mutagenic effects have occurred in humans.
<b>Neurotoxicity</b>	No information found



## 1.12 Ecological Information

<b>Ecotoxicity</b>	Not available. Do not enter into drains.
<b>BOD5 and COD</b>	Not available
<b>Air Pollution</b>	Observe local/national regulations

## 1.13 Disposal Considerations

### Waste from Residue

Dispose of in accordance with all applicable local and national regulations.

## 1.14 Transport Information

### Transport Classification

Not classified as dangerous for any mode of UK or International transport.

## 1.15 Regulatory Information

European Regulation: Irritant R 36/37/38. May be irritating to respiratory system and skin S 22/24/37. May be irritating to eyes S 25/26/36.

Reviews, Standards, and Regulations: Health & Safety at Work Act 1974. COSHH Regulations (1994). EH40 Occupational Exposure Limits.

## 1.16 Other Information



This advice is given by LFA Machines Oxford Ltd., who accept no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.

We confirm that the information above is sourced from the original manufacturers/suppliers.

## 2. Technical Specifications

### 2.1 Product Data



<b>Product Code</b>	SCD
<b>Raw Material Full Name</b>	Silicon Dioxide
<b>Limit/Range/Specification</b>	Min 99%
<b>CAS Number</b>	7631-86-9
<b>EC/EINECS Number</b>	Not available
<b>Molecular Formula for the Raw Material</b>	Not available
<b>Solubility in Water</b>	Insoluble in water
<b>Solubility in Alcohol</b>	Insoluble in ethanol
<b>Chloride</b>	Max 0.1%
<b>Loss on Drying</b>	Max 5%
<b>Particle Size</b>	120 mesh
<b>Percentage passed through</b>	More than 85%
<b>pH</b>	5.0-7.5
<b>Conductivity</b>	Max 75 $\mu$ S
<b>Residue on Ignition</b>	Max 8.5%
<b>Country of Origin</b>	China
<b>Country of Origin of the Manufacture</b>	USA
<b>Base Source/Start Material</b>	Sodium silicate
<b>Origin of Product (Synthetic, Mineral, Animal, Fish, or Fermented)</b>	Synthetic- quartz/sand
<b>Compound Ingredients</b>	None
<b>Shelf Life from Date of Manufacture</b>	2 years
<b>Storage Conditions</b>	Stored in cool and dry place.
<b>Appearance (Color, Flavor/Taste, Texture, Odor)</b>	Free flowing fine powder. Color is white to off-white. Flavor/taste is characteristic. Texture is powder. Odor is characteristic.
<b>Bulk Density</b>	0.05 g/cm <sup>3</sup>

## 2.2 Metals



<b>Heavy Metals</b>	Max 10 ppm
<b>Iron</b>	<0.200 ppm
<b>Arsenic</b>	<0.200 ppm
<b>Pharmacopoeia Standard Used</b>	ICP-OES

There are no nuts in this recipe, and there are no nuts on site. However, we cannot guarantee that the raw materials entering the site are nut free.

## 2.3 Confirmation of Status List



### CONFIRMATION OF BSE/TSE STATUS

This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE. This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.

### CONFIRMATION OF GM STATUS

This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

### CONFIRMATION OF NON-IRRADIATION STATUS

This is to certify that this product, whole or in part, has not been subjected to ionizing radiation as per European Directives 1999/2/EC and 1000/3/EC.

### CONFIRMATION OF NANDROLONE STATUS

This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.

### CONFIRMATION OF IOC PRODUCT STATUS

This is to certify that this product, whole or in part, has not come into contact with any product(s) banned by the IOC (International Olympics Committee).

### CONFIRMATION OF ANIMAL TESTING STATUS

This is to certify that all the products sold by LFA Machines Oxford Ltd. have not been tested on animals in any part of its manufacture in accordance with regulation 86/609/EEC.

### CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No. 396/2005 of 23rd February 2005 and commission regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.

## 3. Intolerance Data

### 3.1 Intolerance Data Table



Free from all animal products (beef, pork, poultry, or other)	YES
Free from bovine products or derivatives by using hormones to increase milk yield in cows	YES
Free from bone meal	YES
Free from peanuts and peanut derivatives (including possible cross contamination)	YES
Free from other nut and nut derivatives	YES
Free from nut derived oil	YES
Free from sesame seeds and sesame seed derivatives	YES
Free from poppy seeds and poppy seed derivatives	YES
Free from sunflower seeds and sunflower seed derivatives	YES
Free from other seeds and seed derivatives	YES
Free from milk and milk derivatives	YES
Free from egg and egg derivatives	YES
Free from cereals containing gluten (wheat/rye/oats/barley/spelt/kamut or their hybridized strains) and derivatives	YES
Free from soya and soya derivatives	YES
Free from maize and maize derivatives	YES
Free from corn and corn derivatives	YES
Free from lupin and lupin derivatives	YES
Free from yeast and yeast derivatives	YES
Free from cotton seeds (flour) and cotton seed derivatives	YES
Free from rice and rice derivatives	YES
Free from mustard and mustard derivatives	YES
Free from celery and celery derivatives	YES
Free from celeriac and celeriac derivatives	YES
Free from fruit and fruit derivatives	YES
Free from vegetable and vegetable derivatives	YES
Free from carrot and carrot derivatives	YES
Free from legumes/pulses	YES



Free from fish and fish derivatives	YES
Free from crustaceans and/or molluscs and their derivatives	YES
Free from additives	YES
Free from added salt	YES
Free from added sugar	YES
Free from antioxidants	YES
Free from artificial glutamates	YES
Free from aspartame	YES
Free from Azo and coal tar dyes	YES
Free from benzoates (E210/E219)	YES
Free from BHA/BHT (E320/E321)	YES
Free from caffeine	YES
Free from cinnamon	YES
Free from cocoa	YES
Free from colors (artificial/nature identical/natural/smoked)	YES
Free from dextrose	YES
Free from dioxins	YES
Free from ethanol	YES
Free from ethylene oxide	YES
Free from flavorings (artificial/nature identical/natural/smoked)	YES
Free from garlic	YES
Free from gelatine	YES
Free from glutamates (E620 to E625)	YES
Free from histamine	YES
Free from hickory	YES
Free from honey	YES
Free from lactose	YES





<b>Free from latex</b>	YES
<b>Free from MSG (added and naturally occurring E621)</b>	YES
<b>Free from nucleotides (E627, E630, E631. E635)</b>	YES
<b>Free from polyols</b>	YES
<b>Free from preservatives</b>	YES
<b>Free from starch products (including maltodextrin)</b>	YES
<b>Free from sorbic acid (E200, E203)</b>	YES
<b>Free from sulphur dioxide and sulphites at levels above 10 mg/kg or 10 mg/liter express as SO<sup>2</sup></b>	YES
<b>Free from sweeteners</b>	YES
<b>Free from vanillin</b>	YES
<b>Suitable for diabetics</b>	YES
<b>Suitable for Celiacs</b>	YES
<b>Suitable for Ovo-Lacto Vegetarians</b>	YES
<b>Suitable for Vegans</b>	YES
<b>Kosher Certified</b>	YES
<b>Halal Certified</b>	YES



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